



OOI Southern Ocean Flanking Mooring Model Analysis A and B
designed for 4800m Depth



By: P. Chua

21-Jan-2015

DCN: 3201-00011

REV: B

REF.DES. GS03FLMA

Source: 21-Jan-2015 09:24:11, ...\imp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Contents

Revision History	2
Mooring Diagram	3
Element List	5
Rope List	6
Backup Buoyancy	7
No Current Static Tension	8
Steady State Launch Tension	9
No Current Static Solution - Parameter	10
Steady State Launch Tension - Parameter	17
Event #001 - Subduction [m]	21
Event #001 - Tension [kg]	22
Event #001 - Simulation Result	23
Event #001 - Simulation Parameter	29
Event #002 - Subduction [m]	35
Event #002 - Tension [kg]	36
Event #002 - Simulation Result	37
Event #002 - Simulation Parameter	43
Event #003 - Subduction [m]	49
Event #003 - Tension [kg]	50
Event #003 - Simulation Result	51
Event #003 - Simulation Parameter	57



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Revision History

3201-00011_OOI_Southern_Ocean_Flanking_Mooring_Model_Analysis_A_and_B_2015-01-21_RevB

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=====
Rev# | Date | Author | Description
-----
A | 31-Oct-2012 | C.Begler | Initial Release, ECR# 1303-00860
-----
B | 21-Jan-2015 | P.Chua | added 2m chain between load cage and float,
added 5m chain between master link and 1" Nystron,
ARF added, ECR# 1303-01381
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depth (incl. stretch)	component	instruments	rope # & Length	Distance from Upper / Lower rope end
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33 m	64" Sphere 1000m DOSTA-D FLORT-D PHSEN-F CTDMO-G P1000m	Sable GPS # _____ XEOS XMB # _____ XEOS XMF # _____, _____ FLBB2 # _____ Optode # _____ SAMI_pH # _____ SBE37-IM # _____ Controller # _____	#1 5m 1/2" EM chain #2 440m 5/16" NILSPIN	1180kg Net Buoyancy incl. 50kg payload upper SW ground coilcord conductor bypass
43 m	CTDMO-G P1000m	SBE37-IM # _____	ind. term	3.0 437.0
63 m	CTDMO-G P1000m	SBE37-IM # _____		23.0 417.0
93 m	CTDMO-G P1000m	SBE37-IM # _____		53.0 387.0
133 m	CTDMO-G P1000m	SBE37-IM # _____		93.0 347.0
184 m	CTDMO-G P1000m	SBE37-IM # _____		143.0 297.0
254 m	CTDMO-G P1000m	SBE37-IM # _____		213.0 227.0
354 m	CTDMO-G P1000m	SBE37-IM # _____		313.0 127.0
482 m	Release Float	ORE8242 # _____	#2 bottom coupler ec coupler ec	ind. term ind. term bypass E: _____, D: _____, R: _____ bypass, must break upon release
483 m	CF14-1000			13 kg Buoyancy
504 m	FL62" 1500m ADCPS-L CTDMO-G P1000m	Sable GPS # _____ XEOS XMB # _____ XEOS XMF # _____, _____ ADCP-LR # _____ SBE37_IM # _____ SBE37-IM # _____	#3 20m 5/16" NILSPIN #4 1000m 5/16" NILSPIN	ind. term ind. term bypass 750kg Net Buoyancy incl. 70kg payload bypass
750 m	CTDMO-H P3500m	SBE37-IM # _____		245.0 755.0
1003 m	CTDMO-H P3500m	SBE37-IM # _____		495.0 505.0
1505 m	CTDMO-H P3500m	SBE37-IM # _____	#4 bottom	995.0 5.0
1510 m	Load Cage	Controller # _____/_____ ATM #ID _____/_____ chain PL 3t 3/4" 1/2" MR PL 3t 3/4"	ind. term	lower SW ground 60 kg Wet Weight incl. 20kg payload
1516 m	8 17" Glass Spheres (8m)		PL 3t 3/4" AS 3t 5/8" AS 3t 5/8" AS 3t 5/8" AS 3t 5/8" PL 3t 3/4" AS 3t 5/8" AS 3t 5/8" PL 3t 3/4" AS 3t 5/8" AS 3t 5/8" #5 1000m 5/16" NILSPIN	



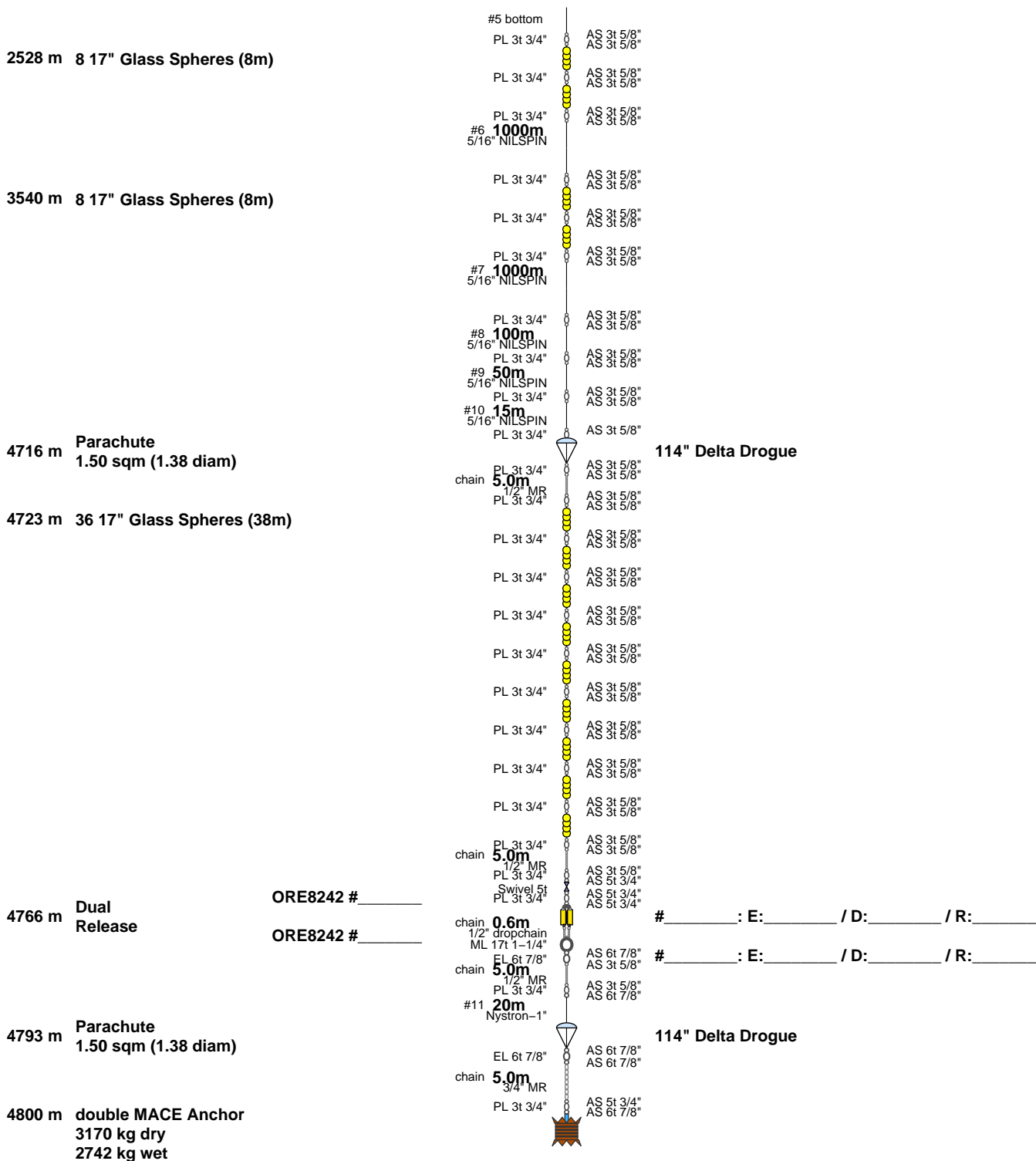
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depth (incl. stretch)	component instruments	rope # & Length	Distance from Upper / Lower rope end
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Element List

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	53	5/8" Bolt Type Anchor Shackle (AS) 3.2t	40.3 kg		35.0 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	29	3/4" Pear Link (PL) 2.7t	24.9 kg		21.5 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	15	4 17" Glass Sphere 204HR on 4m chain	1440.0 kg		-1320.0 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
374	7	CTDMO-G P1000m IM, clamp on	26.6 kg		19.6 kg
375	3	CTDMO-H P3500m IM, clamp on	11.4 kg		8.4 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 :			4161.0 kg		-2983.7 kg

Ropes					

103	4625m	5/16" 3x19 Jac. NILSPIN wire	1443.0 kg		985.1 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	17m	Mooring (MR) chain 1/2", 2.7t	59.5 kg		51.7 kg
183	5m	Mooring (MR) chain 3/4", 6.0t	38.0 kg		33.1 kg

Ropes weight :			1640.6 kg		1106.8 kg

Summary					

		Components	4161.0 kg		-2983.7 kg
		Ropes	1640.6 kg		1106.8 kg
522	1	double MACE Anchor	3170.0 kg		2742.1 kg

Mooring total weight :			8971.6 kg		865.2 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	2m	Mooring (MR) chain 1/2", 2.7t	7.0 kg		6.1 kg
5	103	1000m	5/16" 3x19 Jac. NILSPIN wire	312.0 kg		213.0 kg
6	103	1000m	5/16" 3x19 Jac. NILSPIN wire	312.0 kg		213.0 kg
7	103	1000m	5/16" 3x19 Jac. NILSPIN wire	312.0 kg		213.0 kg
8	103	100m	5/16" 3x19 Jac. NILSPIN wire	31.2 kg		21.3 kg
9	103	50m	5/16" 3x19 Jac. NILSPIN wire	15.6 kg		10.7 kg
10	103	15m	5/16" 3x19 Jac. NILSPIN wire	4.7 kg		3.2 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
	181	5m	Mooring (MR) chain 1/2", 2.7t	17.5 kg		15.2 kg
11	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: 20

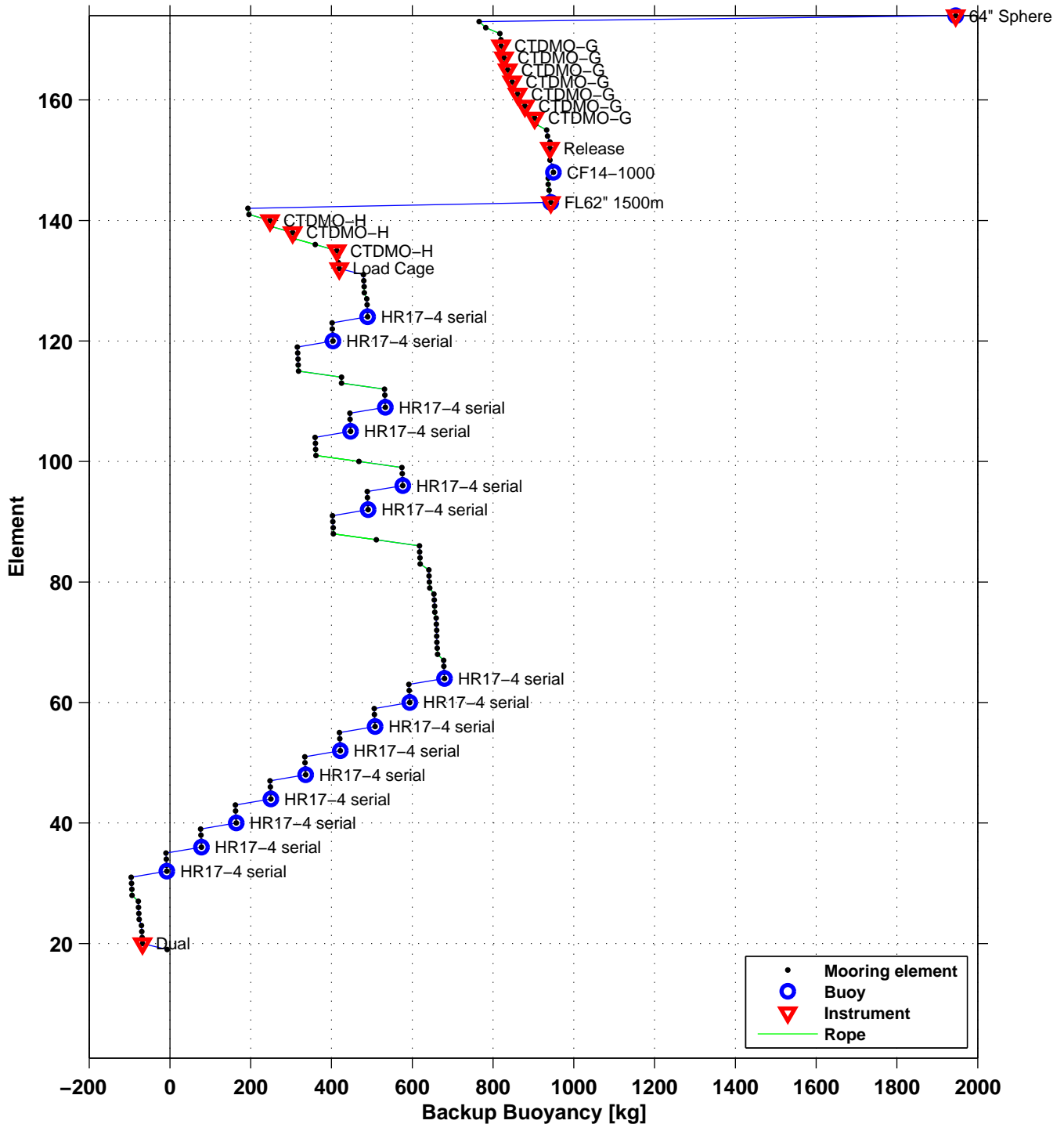
#	Length	Type	Position of Markers [m]
2x	440m	5/16" NILSPIN:	3, 23, 53, 93, 127, 143, 213, 227 297, 313, 347, 387, 417, 437
4x	1000m	5/16" NILSPIN:	5, 245, 495, 505, 755, 995



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Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)				
Backup Buoyancy				



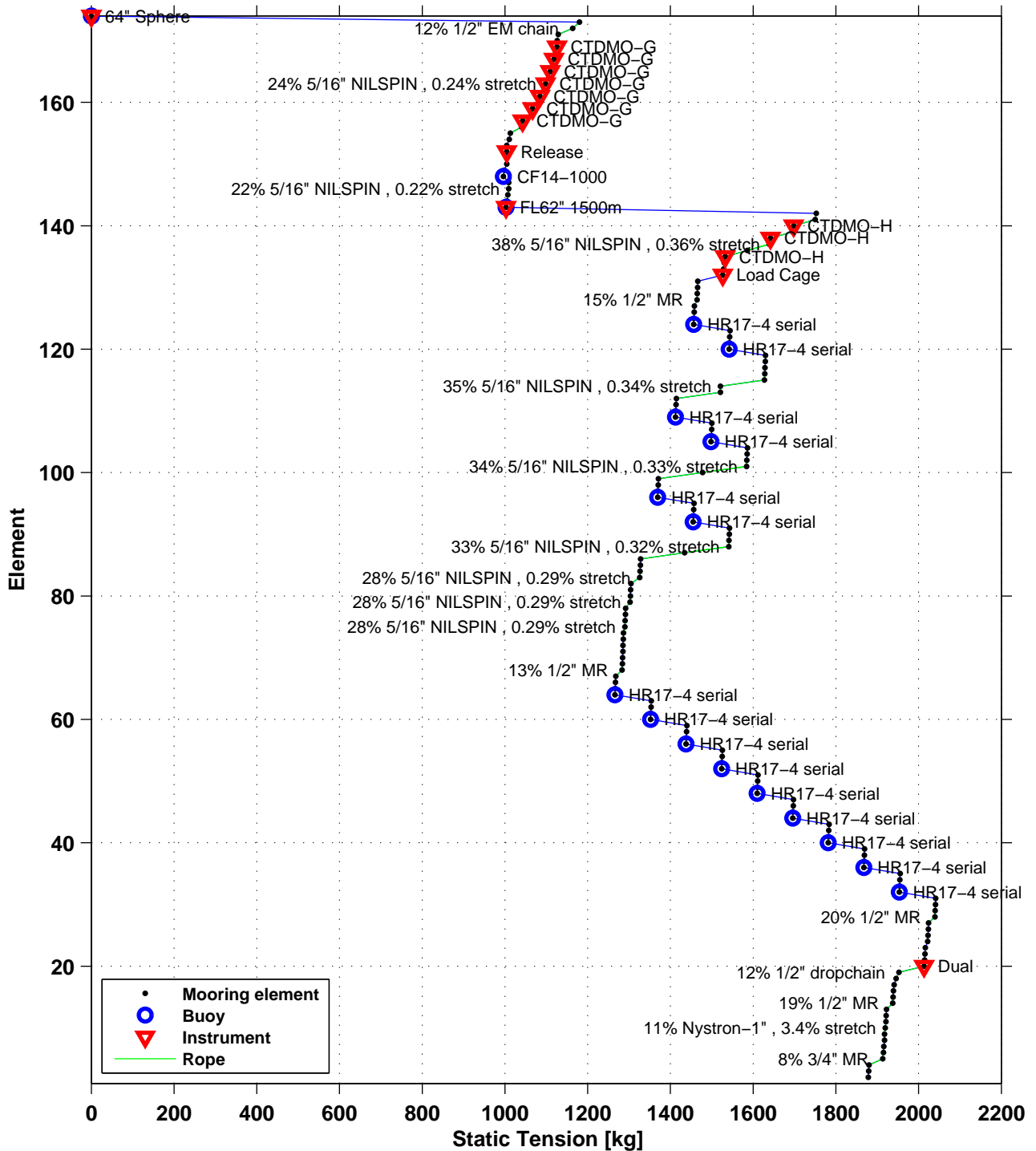
NO Current Vertical anchor load : 1877 kg
Wet safe anchor weight : 2346 kg (125%, max: 500 kg)
Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



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Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)				
No Current Static Tension				



NO Current Vertical anchor load : 1877 kg
Wet safe anchor weight : 2346 kg (125%, max: 500 kg)
Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



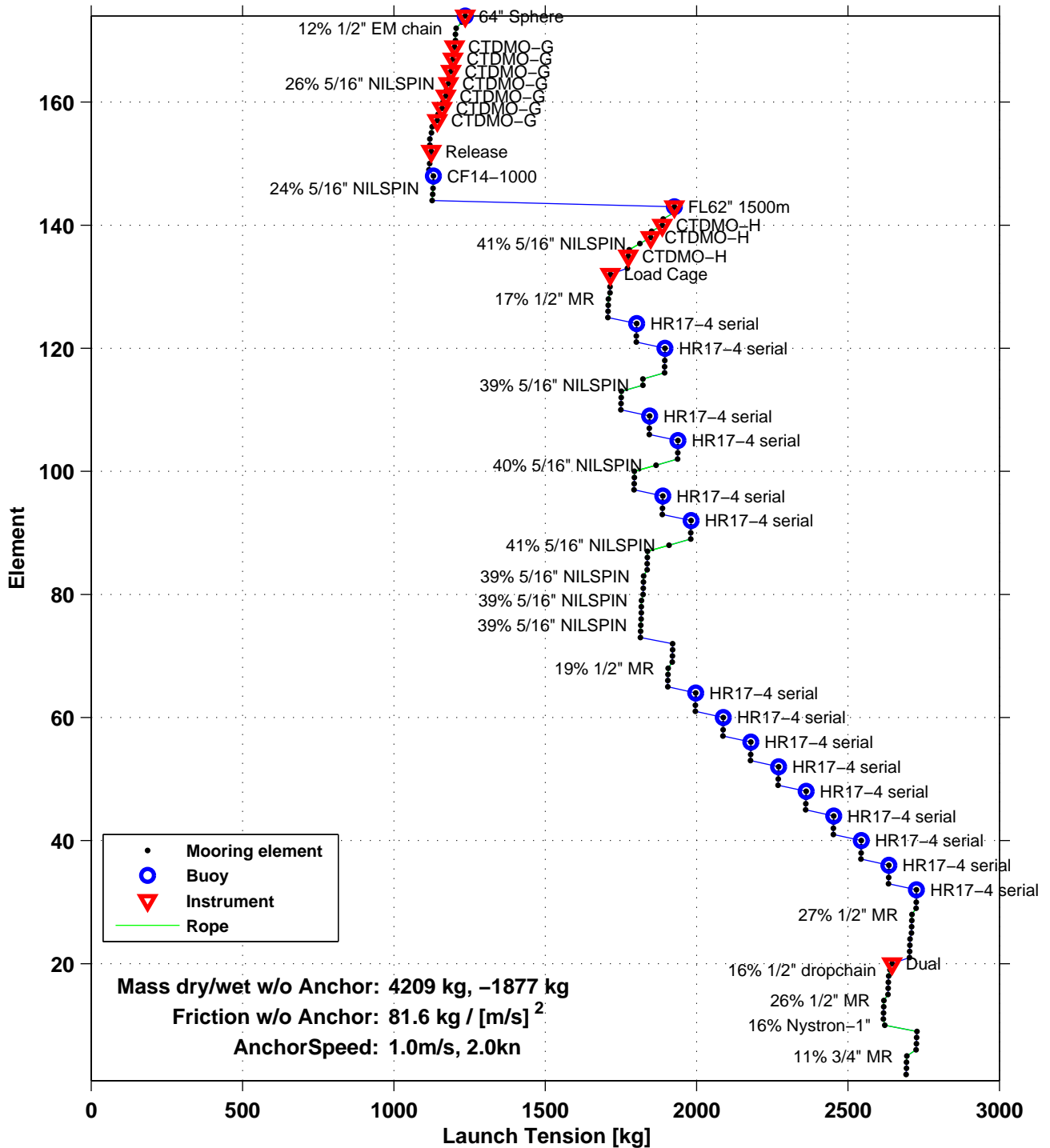
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Steady State Launch Tension



NO Current Vertical anchor load: 1877 kg
Wet safe anchor weight: 2346 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]	[%]	
174	306	64" Sphere	100	2.3	1180.0	1945.6	4767.4	32.6	0.0	0.0	0.00	0.00
173	17	U-Joint	0.3	-16.3	765.6	4765.2	35.0	1180.0	7.4	0.00	0.00	0.00
172	141	1/2" EM chain	5.0	-35.0	781.9	4764.9	37.6	1163.7	11.6	0.00	0.00	0.00
171	13	ind. term	0.1	-2.4	816.9	4759.9	40.2	1128.7	7.1	0.00	0.00	0.00
170	103	5/16" NILSPIN	3.0	-0.6	819.3	4759.8	41.7	1126.3	24.2	0.01	0.25	0.00
169	374	CTDMO-G P1000m	0.0	-2.8	820.0	4756.8	43.2	1125.7	11.3	0.00	0.00	0.00
168	103	5/16" NILSPIN	20.0	-4.3	822.8	4756.8	53.2	1122.9	24.1	0.05	0.25	0.00
167	374	CTDMO-G P1000m	0.0	-2.8	827.0	4736.7	63.3	1118.6	11.2	0.00	0.00	0.00
166	103	5/16" NILSPIN	30.1	-6.4	829.8	4736.7	78.3	1115.8	24.0	0.07	0.25	0.00
165	374	CTDMO-G P1000m	0.0	-2.8	836.2	4706.7	93.3	1109.4	11.1	0.00	0.00	0.00
164	103	5/16" NILSPIN	40.1	-8.5	839.0	4706.7	113.4	1106.6	23.8	0.10	0.24	0.00
163	374	CTDMO-G P1000m	0.0	-2.8	847.6	4666.6	133.4	1098.1	11.0	0.00	0.00	0.00
162	103	5/16" NILSPIN	50.1	-10.6	850.4	4666.6	158.5	1095.3	23.5	0.12	0.24	0.00
161	374	CTDMO-G P1000m	0.0	-2.8	861.0	4616.4	183.6	1084.6	10.8	0.00	0.00	0.00
160	103	5/16" NILSPIN	70.2	-14.9	863.8	4616.4	218.6	1081.8	23.3	0.17	0.24	0.00
159	374	CTDMO-G P1000m	0.0	-2.8	878.7	4546.3	253.7	1066.9	10.7	0.00	0.00	0.00
158	103	5/16" NILSPIN	100.2	-21.3	881.5	4546.3	303.8	1064.1	22.9	0.23	0.23	0.00
157	374	CTDMO-G P1000m	0.0	-2.8	902.8	4446.0	354.0	1042.8	10.4	0.00	0.00	0.00
156	103	5/16" NILSPIN	127.3	-27.1	905.6	4446.0	417.6	1040.0	22.4	0.29	0.23	0.00
155	13	ind. term	0.1	-2.4	932.7	4318.7	481.3	1013.0	6.3	0.00	0.00	0.00
154	15	coupler ec	0.2	-6.0	935.1	4318.6	481.5	1010.6	6.3	0.00	0.00	0.00
152	479	Release Float	1.0	0.0	941.1	4318.4	482.1	1004.6	10.0	0.00	0.00	0.00
150	15	coupler ec	0.2	-6.0	941.1	4317.4	482.7	1004.6	6.3	0.00	0.00	0.00
149	13	ind. term	0.1	-2.4	947.1	4317.2	482.8	998.6	6.2	0.00	0.00	0.00
148	256	CF14-1000	0.0	13.0	949.5	4317.1	482.9	996.2	16.6	0.00	0.00	0.00
146	103	5/16" NILSPIN	10.0	-2.1	936.5	4317.1	487.9	1009.2	21.7	0.02	0.22	0.00
145	103	5/16" NILSPIN	10.0	-2.1	938.6	4307.1	497.9	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]	[%]
144	13	ind. term	0.1	-2.4	940.7	4297.1	503.0	1004.9	6.3	0.00	0.00
143	326	FL62" 1500m ADC	2.8	750.0	943.1	4297.0	504.4	1002.5	10.0	0.00	0.00
142	13	ind. term	0.1	-2.4	193.1	4294.2	505.9	1752.5	11.0	0.00	0.00
141	103	5/16" NILSPIN	245.9	-52.2	195.5	4294.1	628.9	1750.1	37.6	0.94	0.38
140	375	CTDMO-H P3500m	0.0	-2.8	247.7	4048.1	751.9	1697.9	17.0	0.00	0.00
139	103	5/16" NILSPIN	250.9	-53.3	250.5	4048.1	877.3	1695.1	36.4	0.92	0.37
138	375	CTDMO-H P3500m	0.0	-2.8	303.8	3797.2	1002.8	1641.9	16.4	0.00	0.00
137	103	5/16" NILSPIN	250.9	-53.3	306.6	3797.2	1128.2	1639.1	35.2	0.89	0.36
136	103	5/16" NILSPIN	250.9	-53.3	359.8	3546.3	1379.1	1585.8	34.1	0.86	0.35
135	375	CTDMO-H P3500m	0.0	-2.8	413.1	3295.5	1504.5	1532.6	15.3	0.00	0.00
134	103	5/16" NILSPIN	5.0	-1.1	415.9	3295.5	1507.0	1529.8	32.9	0.02	0.34
133	13	ind. term	0.1	-2.4	416.9	3290.4	1509.6	1528.7	9.6	0.00	0.00
132	300	Load Cage	1.5	-60.0	419.3	3290.3	1510.4	1526.3	15.3	0.00	0.00
131	32	AS 3t 5/8"	0.1	-0.7	479.3	3288.8	1511.2	1466.3	12.2	0.00	0.00
130	53	PL 3t 3/4"	0.1	-0.7	480.0	3288.8	1511.3	1465.7	12.2	0.00	0.00
129	32	AS 3t 5/8"	0.1	-0.7	480.7	3288.7	1511.4	1464.9	12.2	0.00	0.00
128	181	1/2" MR	2.0	-6.1	481.4	3288.6	1512.4	1464.3	14.6	0.00	0.00
127	32	AS 3t 5/8"	0.1	-0.7	487.5	3286.6	1513.4	1458.2	12.2	0.00	0.00
126	53	PL 3t 3/4"	0.1	-0.7	488.1	3286.5	1513.5	1457.5	12.1	0.00	0.00
125	32	AS 3t 5/8"	0.1	-0.7	488.9	3286.4	1513.6	1456.8	12.1	0.00	0.00
124	274	HR17-4 serial	4.0	88.0	489.5	3286.4	1515.6	1456.1	14.6	0.00	0.00
123	32	AS 3t 5/8"	0.1	-0.7	401.5	3282.4	1517.7	1544.1	12.9	0.00	0.00
122	53	PL 3t 3/4"	0.1	-0.7	402.2	3282.3	1517.8	1543.5	12.9	0.00	0.00
121	32	AS 3t 5/8"	0.1	-0.7	402.9	3282.2	1517.9	1542.7	12.9	0.00	0.00
120	274	HR17-4 serial	4.0	88.0	403.6	3282.1	1519.9	1542.1	15.4	0.00	0.00
119	32	AS 3t 5/8"	0.1	-0.7	315.6	3278.1	1521.9	1630.1	13.6	0.00	0.00
118	53	PL 3t 3/4"	0.1	-0.7	316.3	3278.0	1522.0	1629.4	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 [kg]	[%]	Stretch [m]	[%]
117	32	AS 3t 5/8"	0.1	-0.7	317.0	3277.9	1522.1	1628.7	13.6	0.00	0.00
116	32	AS 3t 5/8"	0.1	-0.7	317.7	3277.9	1522.2	1628.0	13.6	0.00	0.00
115	103	5/16" NILSPIN	501.7	-106.5	318.3	3277.8	1773.1	1627.3	35.0	1.74	0.35
113	103	5/16" NILSPIN	501.6	-106.5	424.8	2776.1	2274.8	1520.8	32.7	1.63	0.33
112	32	AS 3t 5/8"	0.1	-0.7	531.3	2274.4	2525.6	1414.3	11.8	0.00	0.00
111	53	PL 3t 3/4"	0.1	-0.7	532.0	2274.4	2525.7	1413.7	11.8	0.00	0.00
110	32	AS 3t 5/8"	0.1	-0.7	532.7	2274.3	2525.8	1412.9	11.8	0.00	0.00
109	274	HR17-4 serial	4.0	88.0	533.4	2274.2	2527.8	1412.3	14.1	0.00	0.00
108	32	AS 3t 5/8"	0.1	-0.7	445.4	2270.2	2529.8	1500.3	12.5	0.00	0.00
107	53	PL 3t 3/4"	0.1	-0.7	446.0	2270.1	2529.9	1499.6	12.5	0.00	0.00
106	32	AS 3t 5/8"	0.1	-0.7	446.8	2270.0	2530.0	1498.9	12.5	0.00	0.00
105	274	HR17-4 serial	4.0	88.0	447.4	2269.9	2532.1	1498.2	15.0	0.00	0.00
104	32	AS 3t 5/8"	0.1	-0.7	359.4	2265.9	2534.1	1586.2	13.2	0.00	0.00
103	53	PL 3t 3/4"	0.1	-0.7	360.1	2265.9	2534.2	1585.5	13.2	0.00	0.00
102	32	AS 3t 5/8"	0.1	-0.7	360.8	2265.8	2534.3	1584.8	13.2	0.00	0.00
101	103	5/16" NILSPIN	501.7	-106.5	361.5	2265.7	2785.1	1584.1	34.0	1.70	0.34
100	103	5/16" NILSPIN	501.6	-106.5	468.0	1764.0	3286.8	1477.6	31.8	1.58	0.32
99	32	AS 3t 5/8"	0.1	-0.7	574.5	1262.4	3537.6	1371.1	11.4	0.00	0.00
98	53	PL 3t 3/4"	0.1	-0.7	575.2	1262.4	3537.7	1370.5	11.4	0.00	0.00
97	32	AS 3t 5/8"	0.1	-0.7	575.9	1262.2	3537.8	1369.7	11.4	0.00	0.00
96	274	HR17-4 serial	4.0	88.0	576.6	1262.2	3539.8	1369.1	13.7	0.00	0.00
95	32	AS 3t 5/8"	0.1	-0.7	488.6	1258.2	3541.9	1457.1	12.1	0.00	0.00
94	53	PL 3t 3/4"	0.1	-0.7	489.2	1258.1	3541.9	1456.4	12.1	0.00	0.00
93	32	AS 3t 5/8"	0.1	-0.7	490.0	1258.0	3542.0	1455.7	12.1	0.00	0.00
92	274	HR17-4 serial	4.0	88.0	490.6	1257.9	3544.1	1455.0	14.6	0.00	0.00
91	32	AS 3t 5/8"	0.1	-0.7	402.6	1253.9	3546.1	1543.0	12.9	0.00	0.00
90	53	PL 3t 3/4"	0.1	-0.7	403.3	1253.9	3546.2	1542.4	12.9	0.00	0.00



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:21, megaalien@(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]	[%]
89	32	AS 3t 5/8"	0.1	-0.7	404.0	1253.8	3546.3	1541.6	12.8	0.00	0.00
88	103	5/16" NILSPIN	501.6	-106.5	404.7	1253.7	3797.1	1541.0	33.1	1.65	0.33
87	103	5/16" NILSPIN	501.5	-106.5	511.2	752.0	4298.7	1434.5	30.8	1.53	0.31
86	32	AS 3t 5/8"	0.1	-0.7	617.7	250.5	4549.5	1328.0	11.1	0.00	0.00
85	53	PL 3t 3/4"	0.1	-0.7	618.3	250.4	4549.6	1327.3	11.1	0.00	0.00
84	32	AS 3t 5/8"	0.1	-0.7	619.1	250.3	4549.7	1326.6	11.1	0.00	0.00
83	103	5/16" NILSPIN	100.3	-21.3	619.7	250.3	4599.9	1325.9	28.5	0.29	0.29
82	32	AS 3t 5/8"	0.1	-0.7	641.0	150.0	4650.1	1304.6	10.9	0.00	0.00
81	53	PL 3t 3/4"	0.1	-0.7	641.7	149.9	4650.1	1303.9	10.9	0.00	0.00
80	32	AS 3t 5/8"	0.1	-0.7	642.5	149.8	4650.2	1303.2	10.9	0.00	0.00
79	103	5/16" NILSPIN	50.1	-10.7	643.1	149.7	4675.3	1302.5	28.0	0.14	0.29
78	32	AS 3t 5/8"	0.1	-0.7	653.8	99.6	4700.4	1291.9	10.8	0.00	0.00
77	53	PL 3t 3/4"	0.1	-0.7	654.4	99.5	4700.5	1291.2	10.8	0.00	0.00
76	32	AS 3t 5/8"	0.1	-0.7	655.2	99.4	4700.6	1290.5	10.8	0.00	0.00
75	103	5/16" NILSPIN	15.0	-3.2	655.8	99.3	4708.2	1289.8	27.7	0.04	0.29
74	32	AS 3t 5/8"	0.1	-0.7	659.0	84.3	4715.7	1286.6	10.7	0.00	0.00
73	53	PL 3t 3/4"	0.1	-0.7	659.7	84.2	4715.8	1286.0	10.7	0.00	0.00
72	491	Parachute	0.0	0.0	660.4	84.1	4715.9	1285.2	12.9	0.00	0.00
71	32	AS 3t 5/8"	0.1	-0.7	660.4	84.1	4715.9	1285.2	10.7	0.00	0.00
70	53	PL 3t 3/4"	0.1	-0.7	661.1	84.1	4716.0	1284.6	10.7	0.00	0.00
69	32	AS 3t 5/8"	0.1	-0.7	661.8	83.9	4716.1	1283.8	10.7	0.00	0.00
68	181	1/2" MR	5.0	-15.2	662.5	83.9	4718.6	1283.2	12.8	0.00	0.00
67	32	AS 3t 5/8"	0.1	-0.7	677.7	78.9	4721.2	1268.0	10.6	0.00	0.00
66	53	PL 3t 3/4"	0.1	-0.7	678.3	78.8	4721.2	1267.3	10.6	0.00	0.00
65	32	AS 3t 5/8"	0.1	-0.7	679.1	78.7	4721.3	1266.6	10.6	0.00	0.00
64	274	HR17-4 serial	4.0	88.0	679.7	78.6	4723.4	1265.9	12.7	0.00	0.00
63	32	AS 3t 5/8"	0.1	-0.7	591.7	74.6	4725.4	1353.9	11.3	0.00	0.00



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Author: 21-Jan-2015 09:24:21, megaalien@(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 [%]	Stretch [m]	Stretch [%]
62	53	PL 3t 3/4"	0.1	-0.7	592.4	74.6	4725.5	1353.2	11.3	0.00	0.00
61	32	AS 3t 5/8"	0.1	-0.7	593.1	74.5	4725.6	1352.5	11.3	0.00	0.00
60	274	HR17-4 serial	4.0	88.0	593.8	74.4	4727.6	1351.8	13.5	0.00	0.00
59	32	AS 3t 5/8"	0.1	-0.7	505.8	70.4	4729.6	1439.8	12.0	0.00	0.00
58	53	PL 3t 3/4"	0.1	-0.7	506.5	70.3	4729.7	1439.2	12.0	0.00	0.00
57	32	AS 3t 5/8"	0.1	-0.7	507.2	70.2	4729.8	1438.4	12.0	0.00	0.00
56	274	HR17-4 serial	4.0	88.0	507.9	70.1	4731.9	1437.8	14.4	0.00	0.00
55	32	AS 3t 5/8"	0.1	-0.7	419.9	66.1	4733.9	1525.8	12.7	0.00	0.00
54	53	PL 3t 3/4"	0.1	-0.7	420.5	66.1	4734.0	1525.1	12.7	0.00	0.00
53	32	AS 3t 5/8"	0.1	-0.7	421.3	66.0	4734.1	1524.4	12.7	0.00	0.00
52	274	HR17-4 serial	4.0	88.0	421.9	65.9	4736.1	1523.7	15.2	0.00	0.00
51	32	AS 3t 5/8"	0.1	-0.7	333.9	61.9	4738.1	1611.7	13.4	0.00	0.00
50	53	PL 3t 3/4"	0.1	-0.7	334.6	61.8	4738.2	1611.1	13.4	0.00	0.00
49	32	AS 3t 5/8"	0.1	-0.7	335.3	61.7	4738.3	1610.3	13.4	0.00	0.00
48	274	HR17-4 serial	4.0	88.0	336.0	61.7	4740.3	1609.7	16.1	0.00	0.00
47	32	AS 3t 5/8"	0.1	-0.7	248.0	57.7	4742.4	1697.7	14.1	0.00	0.00
46	53	PL 3t 3/4"	0.1	-0.7	248.7	57.6	4742.5	1697.0	14.1	0.00	0.00
45	32	AS 3t 5/8"	0.1	-0.7	249.4	57.5	4742.6	1696.3	14.1	0.00	0.00
44	274	HR17-4 serial	4.0	88.0	250.1	57.4	4744.6	1695.6	17.0	0.00	0.00
43	32	AS 3t 5/8"	0.1	-0.7	162.1	53.4	4746.6	1783.6	14.9	0.00	0.00
42	53	PL 3t 3/4"	0.1	-0.7	162.7	53.4	4746.7	1782.9	14.9	0.00	0.00
41	32	AS 3t 5/8"	0.1	-0.7	163.5	53.2	4746.8	1782.2	14.9	0.00	0.00
40	274	HR17-4 serial	4.0	88.0	164.1	53.2	4748.8	1781.5	17.8	0.00	0.00
39	32	AS 3t 5/8"	0.1	-0.7	76.1	49.2	4750.9	1869.5	15.6	0.00	0.00
38	53	PL 3t 3/4"	0.1	-0.7	76.8	49.1	4750.9	1868.9	15.6	0.00	0.00
37	32	AS 3t 5/8"	0.1	-0.7	77.5	49.0	4751.0	1868.1	15.6	0.00	0.00
36	274	HR17-4 serial	4.0	88.0	78.2	48.9	4753.1	1867.5	18.7	0.00	0.00



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg
 Author: 21-Jan-2015 09:24:21, megaalien@(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 [%]	Stretch [m]	Stretch [%]
35	32	AS 3t 5/8"	0.1	-0.7	-9.8	44.9	4755.1	1955.5	16.3	0.00	0.00
34	53	PL 3t 3/4"	0.1	-0.7	-9.2	44.9	4755.2	1954.8	16.3	0.00	0.00
33	32	AS 3t 5/8"	0.1	-0.7	-8.4	44.7	4755.3	1954.1	16.3	0.00	0.00
32	274	HR17-4 serial	4.0	88.0	-7.8	44.7	4757.3	1953.4	19.5	0.00	0.00
31	32	AS 3t 5/8"	0.1	-0.7	-95.8	40.7	4759.3	2041.4	17.0	0.00	0.00
30	53	PL 3t 3/4"	0.1	-0.7	-95.1	40.6	4759.4	2040.7	17.0	0.00	0.00
29	32	AS 3t 5/8"	0.1	-0.7	-94.4	40.5	4759.5	2040.0	17.0	0.00	0.00
28	181	1/2" MR	5.0	-15.2	-93.7	40.4	4762.1	2039.3	20.4	0.00	0.00
27	32	AS 3t 5/8"	0.1	-0.7	-78.5	35.4	4764.6	2024.1	16.9	0.00	0.00
26	53	PL 3t 3/4"	0.1	-0.7	-77.8	35.4	4764.7	2023.5	16.9	0.00	0.00
25	33	AS 5t 3/4"	0.1	-1.1	-77.1	35.3	4764.8	2022.7	11.2	0.00	0.00
24	94	Swivel 5t	0.2	-5.3	-76.0	35.2	4764.9	2021.7	20.2	0.00	0.00
23	33	AS 5t 3/4"	0.1	-1.1	-70.7	35.0	4765.1	2016.3	11.2	0.00	0.00
22	53	PL 3t 3/4"	0.1	-0.7	-69.6	34.9	4765.2	2015.3	16.8	0.00	0.00
21	33	AS 5t 3/4"	0.1	-1.1	-68.9	34.8	4765.3	2014.5	11.2	0.00	0.00
20	478	Dual Release	1.0	-61.0	-67.8	34.7	4765.8	2013.4	20.1	0.00	0.00
19	480	1/2" dropchain	0.6	-6.8	-6.8	33.6	4766.7	1952.4	12.2	0.00	0.00
18	76	ML 17t 1-1/4"	0.2	-4.8	NaN	33.0	4767.1	1945.6	4.4	0.00	0.00
17	34	AS 6t 7/8"	0.1	-1.6	NaN	32.8	4767.2	1940.8	8.1	0.00	0.00
16	64	EL 6t 7/8"	0.1	-1.0	NaN	32.7	4767.3	1939.2	8.1	0.00	0.00
15	32	AS 3t 5/8"	0.1	-0.7	NaN	32.6	4767.4	1938.2	16.2	0.00	0.00
14	181	1/2" MR	5.0	-15.2	NaN	32.5	4770.0	1937.6	19.4	0.00	0.00
13	32	AS 3t 5/8"	0.1	-0.7	NaN	27.5	4772.5	1922.4	16.0	0.00	0.00
12	53	PL 3t 3/4"	0.1	-0.7	NaN	27.5	4772.6	1921.7	16.0	0.00	0.00
11	34	AS 6t 7/8"	0.1	-1.6	NaN	27.3	4772.7	1920.9	8.0	0.00	0.00
10	113	Nystron-1"	20.7	-2.0	NaN	27.3	4783.1	1919.4	11.4	0.69	3.43
9	491	Parachute	0.0	0.0	NaN	6.6	4793.4	1917.4	19.2	0.00	0.00



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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 Author: 21-Jan-2015 09:24:21, megaalien@(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]	[%]
8	34	AS 6t 7/8"	0.1	-1.6	NaN	6.6	4793.5	1917.4	8.0	0.00	0.00
7	64	EL 6t 7/8"	0.1	-1.0	NaN	6.5	4793.6	1915.9	8.0	0.00	0.00
6	34	AS 6t 7/8"	0.1	-1.6	NaN	6.4	4793.7	1914.8	8.0	0.00	0.00
5	183	3/4" MR	5.0	-33.1	NaN	6.3	4796.2	1913.3	8.0	0.00	0.00
4	33	AS 5t 3/4"	0.1	-1.1	NaN	1.3	4798.8	1880.2	10.4	0.00	0.00
3	53	PL 3t 3/4"	0.1	-0.7	NaN	1.2	4798.9	1879.2	15.7	0.00	0.00
2	34	AS 6t 7/8"	0.1	-1.6	NaN	1.1	4799.0	1878.4	7.8	0.00	0.00
1	522	double MACE Anch	1.0	-2742.1	NaN	1.0	4800.0	1876.9	31.3	0.00	0.00

Max. 37.6% Static Tension at:

141	103	5/16" NILSPIN	245.9	-52.2	195.5	4294.1	628.9	1750.1	37.6	0.94	0.38
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Vertical anchor load : 1877 kg
 Wet MACE Anchor weight : 2742 kg
 Safe MACE Anchor weight : 2346 kg



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Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Steady State Launch Tension – Parameter: descent at 1.01 m/s, 2.0 kn

#	ID	Mooring Element	Length [m]	Buoy [kg]	Diameter [m]	Area [m^2]	Ct	Drag [kg]	LaunchTension [kg]	[%]
174	306	64" Sphere 100	2.3	1180.0	1.630	2.087	0.50	55.66	1235.7	12.4
173	17	U-Joint	0.3	-16.3	0.300	0.071	1.50	5.66	1225.0	7.7
172	141	1/2" EM chain	5.0	-35.0	0.200	3.142	0.09	15.77	1205.8	12.1
171	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.16	1203.5	7.5
170	103	5/16" NILSPIN	3.0	-0.6	0.010	0.090	0.05	0.23	1203.1	25.9
169	374	CTDMO-G P1000m	0.0	-2.8	0.075	0.004	1.00	0.24	1200.6	12.0
168	103	5/16" NILSPIN	20.0	-4.3	0.010	0.600	0.05	1.56	1197.9	25.7
167	374	CTDMO-G P1000m	0.0	-2.8	0.075	0.004	1.00	0.24	1195.3	12.0
166	103	5/16" NILSPIN	30.1	-6.4	0.010	0.899	0.05	2.34	1191.3	25.6
165	374	CTDMO-G P1000m	0.0	-2.8	0.075	0.004	1.00	0.24	1188.7	11.9
164	103	5/16" NILSPIN	40.1	-8.5	0.010	1.199	0.05	3.12	1183.3	25.4
163	374	CTDMO-G P1000m	0.0	-2.8	0.075	0.004	1.00	0.24	1180.7	11.8
162	103	5/16" NILSPIN	50.1	-10.6	0.010	1.499	0.05	3.90	1174.0	25.2
161	374	CTDMO-G P1000m	0.0	-2.8	0.075	0.004	1.00	0.24	1171.4	11.7
160	103	5/16" NILSPIN	70.2	-14.9	0.010	2.098	0.05	5.46	1162.0	25.0
159	374	CTDMO-G P1000m	0.0	-2.8	0.075	0.004	1.00	0.24	1159.4	11.6
158	103	5/16" NILSPIN	100.2	-21.3	0.010	2.997	0.05	7.80	1145.9	24.6
157	374	CTDMO-G P1000m	0.0	-2.8	0.075	0.004	1.00	0.24	1143.3	11.4
156	103	5/16" NILSPIN	127.3	-27.1	0.010	3.807	0.05	9.90	1126.2	24.2
155	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.16	1123.9	7.0
154	15	coupler ec	0.2	-6.0	0.100	0.008	1.50	0.63	1118.6	7.0
152	479	Release Float	1.0	0.0	0.370	0.108	0.90	5.16	1123.7	11.2
150	15	coupler ec	0.2	-6.0	0.100	0.008	1.50	0.63	1118.4	7.0
149	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.16	1116.1	7.0
148	256	CF14-1000	0.0	13.0	0.300	0.071	0.30	1.13	1130.2	18.8
146	103	5/16" NILSPIN	10.0	-2.1	0.010	0.300	0.08	1.20	1129.3	24.3
145	103	5/16" NILSPIN	10.0	-2.1	0.010	0.300	0.08	1.20	1128.4	24.3
144	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.16	1126.1	7.0
143	326	FL62" 1500m ADC	2.8	750.0	1.550	1.887	0.50	50.33	1926.5	19.3
142	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.16	1924.2	12.0
141	103	5/16" NILSPIN	245.9	-52.2	0.010	7.349	0.04	17.22	1889.3	40.6
140	375	CTDMO-H P3500m	0.0	-2.8	0.075	0.004	1.00	0.24	1886.7	18.9
139	103	5/16" NILSPIN	250.9	-53.3	0.010	7.499	0.04	17.57	1851.0	39.8
138	375	CTDMO-H P3500m	0.0	-2.8	0.075	0.004	1.00	0.24	1848.5	18.5
137	103	5/16" NILSPIN	250.9	-53.3	0.010	7.498	0.04	17.57	1812.8	39.0
136	103	5/16" NILSPIN	250.9	-53.3	0.010	7.498	0.04	17.57	1777.1	38.2
135	375	CTDMO-H P3500m	0.0	-2.8	0.075	0.004	1.00	0.24	1774.6	17.7
134	103	5/16" NILSPIN	5.0	-1.1	0.010	0.150	0.04	0.35	1773.8	38.1
133	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.16	1771.6	11.1
132	300	Load Cage	1.5	-60.0	0.300	0.071	0.90	3.39	1715.0	17.1
131	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1714.6	14.3
130	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1714.1	14.3
129	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1713.7	14.3
128	181	1/2" MR	2.0	-6.1	0.020	0.126	0.11	0.74	1708.3	17.1
127	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1707.9	14.2
126	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1707.4	14.2
125	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1707.0	14.2
124	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.67	6.97	1802.0	18.0
123	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1801.6	15.0
122	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1801.1	15.0
121	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1800.7	15.0
120	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.67	6.97	1895.6	19.0
119	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1895.2	15.8



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Steady State Launch Tension – Parameter: descent at 1.01 m/s, 2.0 kn, cont.

#	ID	Mooring Element	Length [m]	Buoy [kg]	Diameter [m]	Area [m^2]	Ct	Drag [kg]	LaunchTension [kg]	[%]
118	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1894.7	15.8
117	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1894.3	15.8
116	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1893.9	15.8
115	103	5/16" NILSPIN	501.7	-106.5	0.010	14.996	0.04	35.14	1822.5	39.2
113	103	5/16" NILSPIN	501.6	-106.5	0.010	14.994	0.04	35.14	1751.2	37.6
112	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1750.8	14.6
111	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1750.3	14.6
110	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1749.9	14.6
109	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.67	6.97	1844.8	18.4
108	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1844.4	15.4
107	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1843.9	15.4
106	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1843.5	15.4
105	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.67	6.97	1938.5	19.4
104	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1938.1	16.2
103	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1937.5	16.1
102	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1937.1	16.1
101	103	5/16" NILSPIN	501.7	-106.5	0.010	14.995	0.04	35.14	1865.8	40.1
100	103	5/16" NILSPIN	501.6	-106.5	0.010	14.993	0.04	35.14	1794.4	38.6
99	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1794.0	15.0
98	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1793.5	14.9
97	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1793.1	14.9
96	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.67	6.97	1888.1	18.9
95	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1887.7	15.7
94	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1887.2	15.7
93	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1886.7	15.7
92	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.67	6.97	1981.7	19.8
91	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1981.3	16.5
90	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1980.8	16.5
89	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1980.4	16.5
88	103	5/16" NILSPIN	501.6	-106.5	0.010	14.994	0.04	35.14	1909.0	41.0
87	103	5/16" NILSPIN	501.5	-106.5	0.010	14.993	0.04	35.14	1837.7	39.5
86	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1837.3	15.3
85	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1836.8	15.3
84	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1836.3	15.3
83	103	5/16" NILSPIN	100.3	-21.3	0.010	2.998	0.06	9.52	1824.6	39.2
82	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1824.2	15.2
81	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1823.7	15.2
80	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1823.2	15.2
79	103	5/16" NILSPIN	50.1	-10.7	0.010	1.499	0.07	5.26	1817.9	39.1
78	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1817.5	15.1
77	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1816.9	15.1
76	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1816.5	15.1
75	103	5/16" NILSPIN	15.0	-3.2	0.010	0.450	0.08	1.89	1815.2	39.0
74	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1814.8	15.1
73	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1814.3	15.1
72	491	Parachute	0.0	0.0	1.382	1.500	1.33	106.43	1920.7	19.2
71	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1920.3	16.0
70	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1919.8	16.0
69	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1919.4	16.0
68	181	1/2" MR	5.0	-15.2	0.020	0.314	0.09	1.58	1905.8	19.1
67	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1905.4	15.9
66	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1904.9	15.9
65	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1904.5	15.9



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Steady State Launch Tension – Parameter: descent at 1.01 m/s, 2.0 kn, cont.

#	ID	Mooring Element	Length [m]	Buoy [kg]	Diameter [m]	Area [m^2]	Ct	Drag [kg]	LaunchTension [kg]	[%]
64	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.43	4.48	1997.0	20.0
63	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1996.6	16.6
62	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	1996.0	16.6
61	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	1995.6	16.6
60	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.43	4.48	2088.1	20.9
59	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2087.7	17.4
58	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	2087.2	17.4
57	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2086.8	17.4
56	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.43	4.48	2179.3	21.8
55	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2178.9	18.2
54	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	2178.4	18.2
53	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2178.0	18.1
52	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.43	4.48	2270.4	22.7
51	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2270.0	18.9
50	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	2269.5	18.9
49	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2269.1	18.9
48	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.43	4.48	2361.6	23.6
47	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2361.2	19.7
46	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	2360.7	19.7
45	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2360.3	19.7
44	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.43	4.48	2452.8	24.5
43	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2452.4	20.4
42	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	2451.8	20.4
41	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2451.4	20.4
40	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.43	4.48	2543.9	25.4
39	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2543.5	21.2
38	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	2543.0	21.2
37	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2542.6	21.2
36	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.43	4.48	2635.1	26.4
35	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2634.7	22.0
34	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	2634.2	22.0
33	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2633.8	21.9
32	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.43	4.48	2726.2	27.3
31	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2725.8	22.7
30	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	2725.3	22.7
29	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2724.9	22.7
28	181	1/2" MR	5.0	-15.2	0.020	0.314	0.09	1.58	2711.3	27.1
27	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2710.9	22.6
26	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	2710.4	22.6
25	33	AS 5t 3/4"	0.1	-1.1	0.080	0.005	1.50	0.40	2709.7	15.1
24	94	Swivel 5t	0.2	-5.3	0.100	0.008	1.20	0.50	2704.9	27.0
23	33	AS 5t 3/4"	0.1	-1.1	0.080	0.005	1.50	0.40	2704.2	15.0
22	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	2703.7	22.5
21	33	AS 5t 3/4"	0.1	-1.1	0.080	0.005	1.50	0.40	2703.0	15.0
20	478	Dual Release	1.0	-61.0	0.300	0.071	0.90	3.39	2645.4	26.5
19	480	1/2" dropchain	0.6	-6.8	0.040	0.001	1.00	0.07	2638.7	16.5
18	76	ML 17t 1-1/4"	0.2	-4.8	0.085	0.006	1.50	0.45	2634.3	6.0
17	34	AS 6t 7/8"	0.1	-1.6	0.088	0.006	1.50	0.49	2633.2	11.0
16	64	EL 6t 7/8"	0.1	-1.0	0.066	0.003	1.50	0.27	2632.5	11.0
15	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2632.1	21.9
14	181	1/2" MR	5.0	-15.2	0.020	0.314	0.09	1.58	2618.4	26.2
13	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.26	2618.0	21.8
12	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	2617.5	21.8



**OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...\imp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Steady State Launch Tension – Parameter: descent at 1.01 m/s, 2.0 kn, cont.

#	ID	Mooring Element	Length [m]	Buoy [kg]	Diameter [m]	Area [m^2]	Ct	Drag [kg]	LaunchTension [kg]	[%]
11	34	AS 6t 7/8"	0.1	-1.6	0.088	0.006	1.50	0.49	2616.4	10.9
10	113	Nystron-1"	20.7	-2.0	0.026	1.661	0.08	6.68	2621.2	15.6
9	491	Parachute	0.0	0.0	1.382	1.500	1.33	106.43	2727.6	27.3
8	34	AS 6t 7/8"	0.1	-1.6	0.088	0.006	1.50	0.49	2726.5	11.4
7	64	EL 6t 7/8"	0.1	-1.0	0.066	0.003	1.50	0.27	2725.8	11.4
6	34	AS 6t 7/8"	0.1	-1.6	0.088	0.006	1.50	0.49	2724.7	11.4
5	183	3/4" MR	5.0	-33.1	0.030	0.471	0.09	2.36	2694.0	11.2
4	33	AS 5t 3/4"	0.1	-1.1	0.080	0.005	1.50	0.40	2693.4	15.0
3	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.23	2692.8	22.4
2	34	AS 6t 7/8"	0.1	-1.6	0.088	0.006	1.50	0.49	2691.8	11.2
1	522	double MACE Anch	1.0	-2742.1	1.000	0.785	1.20	50.28	0.0	0.0

Max. 41.0% Launch Tension at:

88	103	5/16" NILSPIN	501.6	-106.5	0.010	14.994	0.04	35.14	1909.0	41.0
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Mass dry / wet w/o Anchor: 4209 kg, -1877 kg
 Drag / Friction w/o Anchor: 814.9 kg, 800.3 kg/[m/s]^2
 Dry/Wet MACE Anchor weight: 3170 kg, 2742 kg
 Steady State AnchorSpeed : 1.01 m/s, 2.0 kn



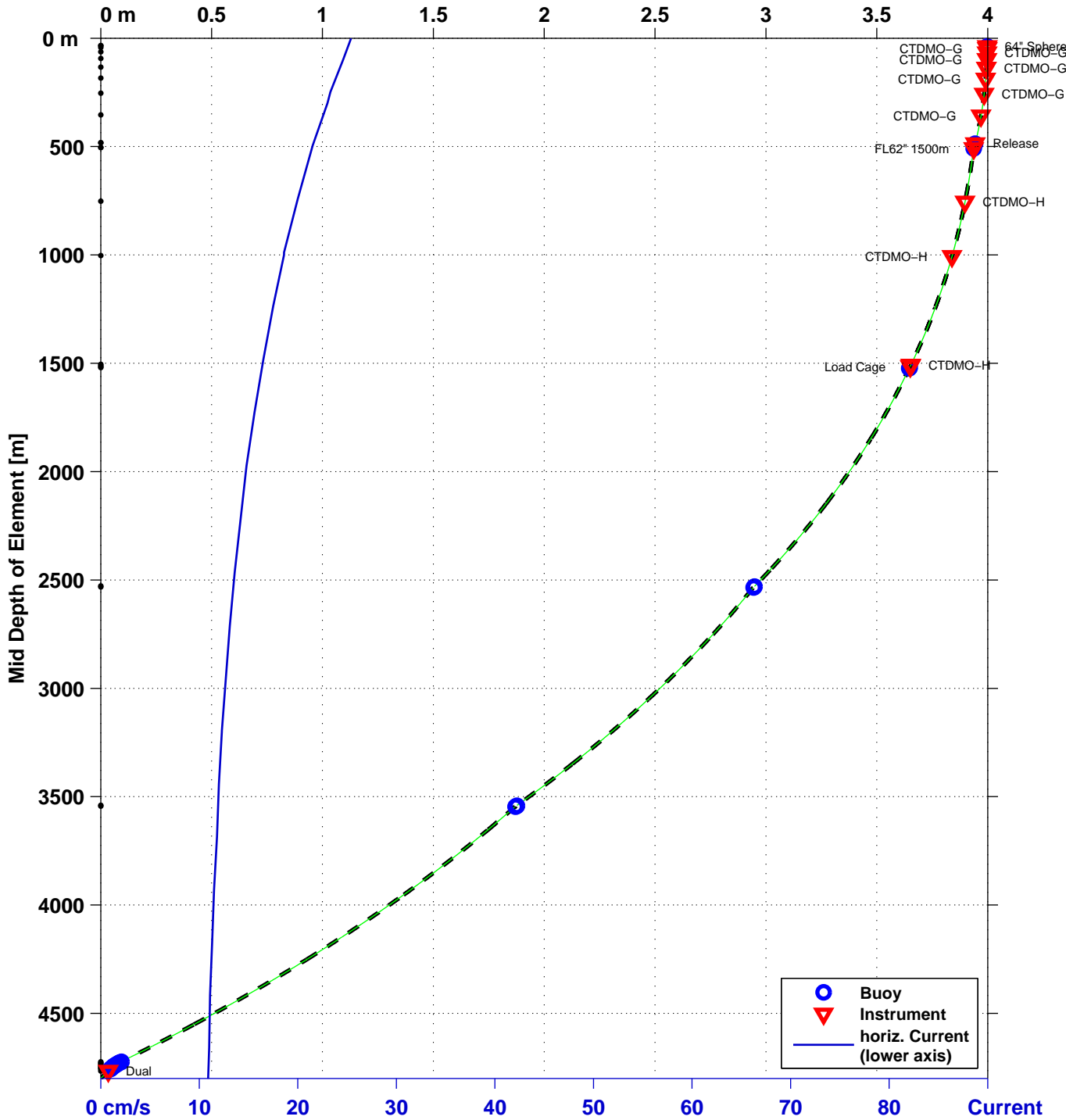
OOI Southern Ocean Flanking Mooring Model Analysis A and B designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...\imp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg
 Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #001 – Subduction [m]: max. 4m, Top at 38m



Event #001: Vert / Horiz anchor load : 1874 kg / 87 kg
 Vert / Horiz anchor safety : 125 % / 120 %,
 Safe Wet MACE anchor weight : 2346 kg, (max. 500 kg or Horiz. safety)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



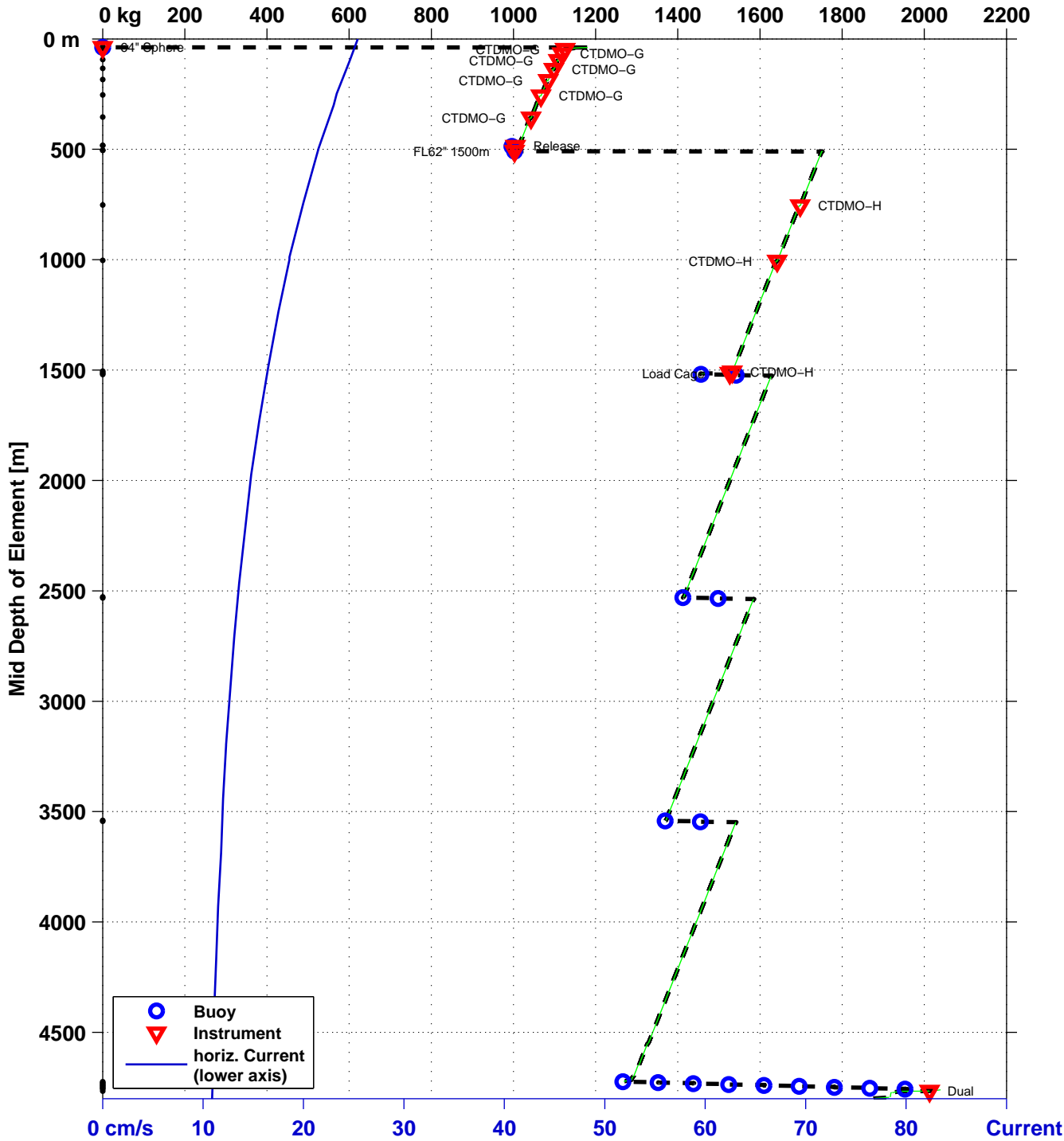
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...\imp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg
 Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #001 – Tension [kg]



Event #001: Vert / Horiz anchor load : 1874 kg / 87 kg
 Vert / Horiz anchor safety : 125 % / 120 %,
 Safe Wet MACE anchor weight : 2346 kg, (max. 500 kg or Horiz. safety)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



OOI Southern Ocean Flanking Mooring Model Analysis A and B
designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg
Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #001 – Simulation Result

#	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]
174	306	64" Sphere 100	2.3	1180.0	2.087	0.50	0.25	3.4	0.0	0.0	0.00	0.00	36.6	4.0	183.3	0.2
173	17	U-Joint	0.3	-16.3	0.090	1.50	0.25	0.4	1180.0	7.4	0.00	0.00	39.0	4.0	183.3	0.2
172	141	1/2" EM chain	5.0	-35.0	1.000	1.30	0.25	4.3	1163.7	11.6	0.00	0.00	39.6	4.0	183.3	0.4
171	13	ind. term	0.1	-2.4	0.005	1.50	0.25	0.0	1128.7	7.1	0.00	0.00	44.2	4.0	183.3	0.4
170	103	5/16" NILSPIN	3.0	-0.6	0.029	1.10	0.25	0.1	1126.3	24.2	0.01	0.25	44.7	4.0	183.3	0.4
169	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.25	0.2	1125.7	11.3	0.00	0.00	47.2	4.0	183.3	0.4
168	103	5/16" NILSPIN	20.0	-4.3	0.191	1.10	0.25	0.7	1122.9	24.1	0.05	0.25	47.7	4.0	183.3	0.5
167	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.25	0.2	1118.6	11.2	0.00	0.00	67.3	4.0	183.1	0.5
166	103	5/16" NILSPIN	30.1	-6.4	0.286	1.10	0.25	1.0	1115.8	24.0	0.07	0.25	67.8	4.0	183.1	0.5
165	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.25	0.2	1109.4	11.1	0.00	0.00	97.3	4.0	182.9	0.5
164	103	5/16" NILSPIN	40.1	-8.5	0.381	1.10	0.24	1.3	1106.6	23.8	0.10	0.24	97.8	4.0	182.9	0.6
163	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.24	0.2	1098.1	11.0	0.00	0.00	137.4	4.0	182.5	0.6
162	103	5/16" NILSPIN	50.1	-10.6	0.476	1.10	0.24	1.6	1095.3	23.5	0.12	0.24	137.9	4.0	182.5	0.7
161	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.24	0.2	1084.7	10.8	0.00	0.00	187.6	4.0	181.9	0.7
160	103	5/16" NILSPIN	70.2	-14.9	0.667	1.10	0.24	2.1	1081.9	23.3	0.17	0.24	188.1	4.0	181.9	0.9
159	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.23	0.2	1066.9	10.7	0.00	0.00	257.7	4.0	180.9	0.9
158	103	5/16" NILSPIN	100.2	-21.3	0.953	1.10	0.23	2.9	1064.1	22.9	0.23	0.23	258.2	4.0	180.9	1.0
157	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.23	0.2	1042.8	10.4	0.00	0.00	357.9	4.0	179.2	1.0
156	103	5/16" NILSPIN	127.3	-27.1	1.210	1.10	0.22	3.4	1040.0	22.4	0.29	0.23	358.4	4.0	179.2	1.3
155	13	ind. term	0.1	-2.4	0.005	1.50	0.22	0.0	1013.0	6.3	0.00	0.00	485.2	3.9	176.6	1.3
154	15	coupler ec	0.2	-6.0	0.020	1.50	0.22	0.1	1010.6	6.3	0.00	0.00	485.4	3.9	176.6	1.3
152	479	Release Float	1.0	0.0	0.592	1.20	0.22	1.7	1004.6	10.0	0.00	0.00	486.0	3.9	176.6	1.3
150	15	coupler ec	0.2	-6.0	0.020	1.50	0.22	0.1	1004.6	6.3	0.00	0.00	486.6	3.9	176.6	1.4
149	13	ind. term	0.1	-2.4	0.005	1.50	0.22	0.0	998.6	6.2	0.00	0.00	486.7	3.9	176.6	1.4
148	256	CFL4-1000	0.0	13.0	0.225	0.50	0.22	0.3	996.2	16.6	0.00	0.00	486.8	3.9	176.6	1.4
146	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.22	0.3	1009.2	21.7	0.02	0.22	487.3	3.9	176.6	1.4
145	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.21	0.3	1007.1	21.6	0.02	0.22	497.3	3.9	176.4	1.4
144	13	ind. term	0.1	-2.4	0.005	1.50	0.21	0.0	1004.9	6.3	0.00	0.00	506.9	3.9	176.1	1.4
143	326	FL62" 1500m ADC	2.8	750.0	1.887	0.50	0.21	2.3	1002.5	10.0	0.00	0.00	508.3	3.9	176.1	1.4
142	13	ind. term	0.1	-2.4	0.005	1.50	0.21	0.0	1752.4	11.0	0.00	0.00	509.8	3.9	176.0	0.9
141	103	5/16" NILSPIN	245.9	-52.2	2.335	1.10	0.21	5.7	1750.0	37.6	0.94	0.38	510.4	3.9	176.0	1.1



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #001 – Simulation Result, cont.

#	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]
140	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.20	0.1	1697.9	17.0	0.00	0.00	755.8	3.9	171.7	1.1
139	103	5/16" NILSPIN	250.9	-53.3	2.382	1.10	0.19	5.1	1695.1	36.4	0.92	0.37	756.3	3.9	171.7	1.3
138	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.19	0.1	1641.8	16.4	0.00	0.00	1006.6	3.8	166.3	1.3
137	103	5/16" NILSPIN	250.9	-53.3	2.382	1.10	0.18	4.5	1639.0	35.2	0.89	0.36	1007.1	3.8	166.3	1.6
136	103	5/16" NILSPIN	250.9	-53.3	2.382	1.10	0.17	3.9	1585.8	34.1	0.86	0.35	1257.9	3.8	159.9	1.8
135	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.16	0.1	1532.6	15.3	0.00	0.00	1508.2	3.7	152.7	1.8
134	103	5/16" NILSPIN	5.0	-1.1	0.048	1.10	0.16	0.1	1529.8	32.9	0.02	0.34	1508.7	3.7	152.7	1.8
133	13	ind. term	0.1	-2.4	0.005	1.50	0.16	0.0	1528.7	9.6	0.00	0.00	1513.3	3.7	152.5	1.8
132	300	Load Cage	1.5	-60.0	0.300	1.30	0.16	0.6	1526.3	15.3	0.00	0.00	1514.1	3.7	152.5	1.8
131	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.16	0.0	1466.3	12.2	0.00	0.00	1514.8	3.7	152.5	1.9
130	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.16	0.0	1465.7	12.2	0.00	0.00	1514.9	3.7	152.5	1.9
129	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.16	0.0	1464.9	12.2	0.00	0.00	1515.0	3.7	152.5	1.9
128	181	1/2" MR	2.0	-6.1	0.040	1.60	0.16	0.1	1464.3	14.6	0.00	0.00	1515.5	3.7	152.4	1.9
127	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.16	0.0	1458.2	12.2	0.00	0.00	1517.1	3.6	152.4	1.9
126	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.16	0.0	1457.5	12.1	0.00	0.00	1517.2	3.6	152.4	1.9
125	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.16	0.0	1456.8	12.1	0.00	0.00	1517.3	3.6	152.4	1.9
124	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.16	0.9	1456.1	14.6	0.00	0.00	1519.3	3.6	152.4	1.9
123	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.16	0.0	1544.1	12.9	0.00	0.00	1521.3	3.6	152.2	1.8
122	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.16	0.0	1543.4	12.9	0.00	0.00	1521.4	3.6	152.2	1.8
121	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.16	0.0	1542.7	12.9	0.00	0.00	1521.5	3.6	152.2	1.8
120	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.16	0.8	1542.0	15.4	0.00	0.00	1523.5	3.6	152.2	1.8
119	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.16	0.0	1630.0	13.6	0.00	0.00	1525.6	3.6	152.1	1.7
118	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.16	0.0	1629.3	13.6	0.00	0.00	1525.7	3.6	152.1	1.7
117	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.16	0.0	1628.6	13.6	0.00	0.00	1525.7	3.6	152.1	1.7
116	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.16	0.0	1627.9	13.6	0.00	0.00	1525.8	3.6	152.1	1.7
115	103	5/16" NILSPIN	501.7	-106.5	4.765	1.10	0.15	6.6	1627.3	35.0	1.74	0.35	1526.3	3.6	152.1	2.1
113	103	5/16" NILSPIN	501.6	-106.5	4.765	1.10	0.14	5.5	1520.8	32.7	1.63	0.33	2027.8	3.4	135.2	2.5
112	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.13	0.0	1414.4	11.8	0.00	0.00	2528.5	2.9	114.9	2.5
111	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.13	0.0	1413.8	11.8	0.00	0.00	2528.6	2.9	114.9	2.5
110	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.13	0.0	1413.0	11.8	0.00	0.00	2528.7	2.9	114.9	2.5
109	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.13	0.6	1412.4	14.1	0.00	0.00	2530.8	2.9	114.9	2.5



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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #001 – Simulation Result, cont.

#	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]
108	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.13	0.0	1500.3	12.5	0.00	0.00	2532.8	2.9	114.7	2.4
107	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.13	0.0	1499.6	12.5	0.00	0.00	2532.9	2.9	114.7	2.4
106	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.13	0.0	1498.9	12.5	0.00	0.00	2533.0	2.9	114.7	2.4
105	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.13	0.6	1498.2	15.0	0.00	0.00	2535.0	2.9	114.7	2.4
104	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.13	0.0	1586.1	13.2	0.00	0.00	2537.0	2.9	114.6	2.3
103	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.13	0.0	1585.5	13.2	0.00	0.00	2537.1	2.9	114.6	2.3
102	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.13	0.0	1584.7	13.2	0.00	0.00	2537.2	2.9	114.6	2.3
101	103	5/16" NILSPIN	501.7	-106.5	4.765	1.10	0.13	4.7	1584.1	34.0	1.70	0.34	2537.7	2.9	114.6	2.6
100	103	5/16" NILSPIN	501.6	-106.5	4.765	1.10	0.12	4.1	1477.7	31.8	1.58	0.32	3039.0	2.5	93.1	3.0
99	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.12	0.0	1371.3	11.4	0.00	0.00	3539.5	1.9	68.5	3.0
98	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.12	0.0	1370.7	11.4	0.00	0.00	3539.6	1.9	68.5	3.0
97	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.12	0.0	1369.9	11.4	0.00	0.00	3539.7	1.9	68.5	3.0
96	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.12	0.5	1369.3	13.7	0.00	0.00	3541.7	1.9	68.5	3.0
95	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.12	0.0	1457.1	12.1	0.00	0.00	3543.7	1.9	68.3	2.8
94	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.12	0.0	1456.5	12.1	0.00	0.00	3543.8	1.9	68.3	2.8
93	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.12	0.0	1455.7	12.1	0.00	0.00	3543.9	1.9	68.3	2.8
92	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.12	0.5	1455.1	14.6	0.00	0.00	3545.9	1.9	68.3	2.8
91	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.12	0.0	1543.0	12.9	0.00	0.00	3548.0	1.9	68.1	2.7
90	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.12	0.0	1542.3	12.9	0.00	0.00	3548.1	1.9	68.1	2.7
89	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.12	0.0	1541.6	12.8	0.00	0.00	3548.1	1.9	68.1	2.7
88	103	5/16" NILSPIN	501.6	-106.5	4.765	1.10	0.12	3.8	1540.9	33.1	1.65	0.33	3548.7	1.9	68.1	3.1
87	103	5/16" NILSPIN	501.5	-106.5	4.765	1.10	0.11	3.5	1434.6	30.8	1.53	0.31	4049.7	1.2	42.9	3.5
86	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1328.2	11.1	0.00	0.00	4549.9	0.4	14.4	3.5
85	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1327.6	11.1	0.00	0.00	4550.0	0.4	14.4	3.5
84	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1326.8	11.1	0.00	0.00	4550.1	0.4	14.4	3.5
83	103	5/16" NILSPIN	100.3	-21.3	0.953	1.10	0.11	0.7	1326.2	28.5	0.29	0.29	4550.7	0.4	14.4	3.5
82	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1304.9	10.9	0.00	0.00	4650.3	0.2	8.2	3.5
81	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1304.2	10.9	0.00	0.00	4650.4	0.2	8.2	3.6
80	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1303.5	10.9	0.00	0.00	4650.5	0.2	8.2	3.6
79	103	5/16" NILSPIN	50.1	-10.7	0.476	1.10	0.11	0.3	1302.8	28.0	0.14	0.29	4651.0	0.2	8.2	3.6
78	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1292.2	10.8	0.00	0.00	4700.6	0.1	5.1	3.6



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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #001 – Simulation Result, cont.

#	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]
77	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1291.6	10.8	0.00	0.00	4700.7	0.1	5.1	3.6
76	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1290.8	10.8	0.00	0.00	4700.8	0.1	5.1	3.6
75	103	5/16" NILSPIN	15.0	-3.2	0.143	1.10	0.11	0.1	1290.2	27.7	0.04	0.29	4701.3	0.1	5.1	3.6
74	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1287.0	10.7	0.00	0.00	4715.8	0.1	4.1	3.6
73	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1286.3	10.7	0.00	0.00	4715.9	0.1	4.1	3.6
72	491	Parachute	0.0	0.0	1.500	0.50	0.11	0.5	1285.6	12.9	0.00	0.00	4716.0	0.1	4.1	3.6
71	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1285.6	10.7	0.00	0.00	4716.0	0.1	4.1	3.6
70	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1284.9	10.7	0.00	0.00	4716.1	0.1	4.1	3.6
69	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1284.2	10.7	0.00	0.00	4716.2	0.1	4.1	3.7
68	181	1/2" MR	5.0	-15.2	0.100	1.60	0.11	0.1	1283.5	12.8	0.00	0.00	4716.7	0.1	4.1	3.7
67	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1268.4	10.6	0.00	0.00	4721.2	0.1	3.8	3.7
66	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1267.7	10.6	0.00	0.00	4721.3	0.1	3.8	3.7
65	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1267.0	10.6	0.00	0.00	4721.4	0.1	3.8	3.7
64	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1266.3	12.7	0.00	0.00	4723.5	0.1	3.8	3.7
63	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1354.1	11.3	0.00	0.00	4725.5	0.1	3.5	3.5
62	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1353.5	11.3	0.00	0.00	4725.6	0.1	3.5	3.5
61	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1352.7	11.3	0.00	0.00	4725.7	0.1	3.5	3.5
60	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1352.1	13.5	0.00	0.00	4727.7	0.1	3.5	3.5
59	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1439.9	12.0	0.00	0.00	4729.7	0.1	3.3	3.3
58	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1439.3	12.0	0.00	0.00	4729.8	0.1	3.3	3.3
57	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1438.5	12.0	0.00	0.00	4729.9	0.1	3.2	3.3
56	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1437.9	14.4	0.00	0.00	4731.9	0.1	3.2	3.3
55	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1525.7	12.7	0.00	0.00	4734.0	0.1	3.0	3.1
54	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1525.1	12.7	0.00	0.00	4734.0	0.1	3.0	3.1
53	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1524.3	12.7	0.00	0.00	4734.1	0.1	3.0	3.1
52	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1523.7	15.2	0.00	0.00	4736.2	0.1	3.0	3.1
51	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1611.6	13.4	0.00	0.00	4738.2	0.1	2.8	3.0
50	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1610.9	13.4	0.00	0.00	4738.3	0.1	2.8	3.0
49	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1610.2	13.4	0.00	0.00	4738.4	0.1	2.8	3.0
48	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1609.5	16.1	0.00	0.00	4740.4	0.1	2.8	3.0
47	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1697.4	14.1	0.00	0.00	4742.4	0.1	2.6	2.8



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg
Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #001 – Simulation Result, cont.

#	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]
46	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1696.7	14.1	0.00	0.00	4742.5	0.1	2.6	2.8
45	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1696.0	14.1	0.00	0.00	4742.6	0.1	2.5	2.8
44	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1695.3	17.0	0.00	0.00	4744.6	0.1	2.5	2.8
43	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1783.2	14.9	0.00	0.00	4746.7	0.1	2.3	2.7
42	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1782.6	14.9	0.00	0.00	4746.8	0.1	2.3	2.7
41	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1781.8	14.8	0.00	0.00	4746.8	0.1	2.3	2.7
40	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1781.2	17.8	0.00	0.00	4748.9	0.1	2.3	2.7
39	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1869.1	15.6	0.00	0.00	4750.9	0.0	2.1	2.6
38	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1868.4	15.6	0.00	0.00	4751.0	0.0	2.1	2.6
37	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1867.7	15.6	0.00	0.00	4751.1	0.0	2.1	2.6
36	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1867.0	18.7	0.00	0.00	4753.1	0.0	2.1	2.6
35	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1954.9	16.3	0.00	0.00	4755.1	0.0	2.0	2.5
34	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1954.3	16.3	0.00	0.00	4755.2	0.0	2.0	2.5
33	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1953.5	16.3	0.00	0.00	4755.3	0.0	1.9	2.5
32	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.11	0.4	1952.9	19.5	0.00	0.00	4757.4	0.0	1.9	2.5
31	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	2040.8	17.0	0.00	0.00	4759.4	0.0	1.8	2.4
30	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	2040.1	17.0	0.00	0.00	4759.5	0.0	1.8	2.4
29	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	2039.4	17.0	0.00	0.00	4759.6	0.0	1.8	2.4
28	181	1/2" MR	5.0	-15.2	0.100	1.60	0.11	0.1	2038.7	20.4	0.00	0.00	4760.1	0.0	1.8	2.4
27	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	2023.5	16.9	0.00	0.00	4764.6	0.0	1.5	2.4
26	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	2022.9	16.9	0.00	0.00	4764.7	0.0	1.5	2.4
25	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.11	0.0	2022.1	11.2	0.00	0.00	4764.8	0.0	1.5	2.4
24	94	Swivel 5t	0.2	-5.3	0.025	1.20	0.11	0.0	2021.1	20.2	0.00	0.00	4765.0	0.0	1.5	2.4
23	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.11	0.0	2015.7	11.2	0.00	0.00	4765.1	0.0	1.5	2.4
22	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	2014.7	16.8	0.00	0.00	4765.2	0.0	1.5	2.4
21	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.11	0.0	2013.9	11.2	0.00	0.00	4765.3	0.0	1.5	2.4
20	478	Dual Release	1.0	-61.0	0.288	1.20	0.11	0.2	2012.8	20.1	0.00	0.00	4765.9	0.0	1.5	2.4
19	480	1/2" dropchain	0.6	-6.8	0.024	1.60	0.11	0.0	1951.9	12.2	0.00	0.00	4766.7	0.0	1.5	2.5
18	76	ML 17t 1-1/4"	0.2	-4.8	0.026	1.50	0.11	0.0	1945.1	4.4	0.00	0.00	4767.1	0.0	1.4	2.5
17	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.11	0.0	1940.3	8.1	0.00	0.00	4767.3	0.0	1.4	2.5
16	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.11	0.0	1938.7	8.1	0.00	0.00	4767.4	0.0	1.4	2.5



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...\\imp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg
Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #001 – Simulation Result, cont.

#	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]
15	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1937.7	16.1	0.00	0.00	4767.5	0.0	1.4	2.5
14	181	1/2" MR	5.0	-15.2	0.100	1.60	0.11	0.1	1937.0	19.4	0.00	0.00	4768.0	0.0	1.4	2.6
13	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.11	0.0	1921.8	16.0	0.00	0.00	4772.5	0.0	1.2	2.6
12	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1921.2	16.0	0.00	0.00	4772.6	0.0	1.2	2.6
11	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.11	0.0	1920.4	8.0	0.00	0.00	4772.7	0.0	1.2	2.6
10	113	Nystron-1"	20.7	-2.0	0.520	1.30	0.11	0.4	1918.9	11.4	0.68	3.42	4773.3	0.0	1.2	2.6
9	491	Parachute	0.0	0.0	1.500	0.50	0.11	0.5	1916.9	19.2	0.00	0.00	4793.4	0.0	0.3	2.6
8	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.11	0.0	1916.9	8.0	0.00	0.00	4793.5	0.0	0.3	2.6
7	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.11	0.0	1915.4	8.0	0.00	0.00	4793.6	0.0	0.3	2.6
6	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.11	0.0	1914.4	8.0	0.00	0.00	4793.7	0.0	0.2	2.6
5	183	3/4" MR	5.0	-33.1	0.150	1.60	0.11	0.2	1912.8	8.0	0.00	0.00	4794.2	0.0	0.2	2.7
4	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.11	0.0	1879.8	10.4	0.00	0.00	4798.8	0.0	0.0	2.7
3	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.11	0.0	1878.7	15.7	0.00	0.00	4798.9	0.0	0.0	2.7
2	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.11	0.0	1878.0	7.8	0.00	0.00	4799.0	0.0	0.0	2.7
1	522	double MACE Anch	1.0	-2742.1	1.200	1.20	0.11	0.9	1876.4	31.3	0.00	0.00	4800.0	0.0	0.0	0.0

Max. 37.6% Static Tension at:
 141 103 5/16" NILSPIN 245.9 -52.2 2.335 1.10 0.21 5.7 1750.0 37.6 0.94 0.38 510.4 3.9 176.0 1.1

Vert/Horiz Anchor Load : 1874 kg / 87 kg
 Wet MACE Anchor Weight : 2742 kg
 Safe MACE Anchor Weight : 2346 kg



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #001 – Simulation Parameter

#	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]
174	306	64" Sphere	2.087	2.087	2.087	0.50	0.50	0.50	0.25	3.4	0.0	0.0	0.0	1180.0	0.0	0.0	0.0	0.2
173	17	U-Joint	0.090	0.090	0.000	1.50	1.50	1.50	0.25	0.4	0.0	0.0	-0.0	-16.3	3.4	0.0	1180.0	0.2
172	141	1/2" EM chai	1.000	1.000	0.005	1.30	1.30	1.00	0.25	4.3	0.0	0.0	-0.0	-35.0	5.6	0.0	1149.7	0.4
171	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.25	0.0	0.0	0.0	-0.0	-2.4	8.2	0.0	1128.7	0.4
170	103	5/16" NILSPI	0.029	0.029	0.000	1.10	1.10	0.00	0.25	0.1	0.0	0.0	-0.0	-0.6	8.2	0.0	1126.1	0.4
169	374	CTDMO-G P100	0.042	0.042	0.000	1.40	1.40	1.00	0.25	0.2	0.0	0.0	-0.0	-2.8	8.3	0.0	1125.6	0.4
168	103	5/16" NILSPI	0.191	0.191	0.001	1.10	1.10	0.00	0.25	0.7	0.0	0.0	-0.0	-4.3	8.8	0.0	1120.8	0.5
167	374	CTDMO-G P100	0.042	0.042	0.000	1.40	1.40	1.00	0.25	0.2	0.0	0.0	-0.0	-2.8	9.2	0.0	1118.6	0.5
166	103	5/16" NILSPI	0.286	0.286	0.003	1.10	1.10	0.00	0.25	1.0	0.0	0.0	-0.0	-6.4	9.8	0.0	1112.7	0.5
165	374	CTDMO-G P100	0.042	0.042	0.000	1.40	1.40	1.00	0.25	0.2	0.0	0.0	-0.0	-2.8	10.4	0.0	1109.4	0.5
164	103	5/16" NILSPI	0.381	0.381	0.004	1.10	1.10	0.00	0.24	1.3	0.0	0.0	-0.0	-8.5	11.2	0.0	1102.4	0.6
163	374	CTDMO-G P100	0.042	0.042	0.000	1.40	1.40	1.00	0.24	0.2	0.0	0.0	-0.0	-2.8	11.8	0.0	1098.0	0.6
162	103	5/16" NILSPI	0.476	0.476	0.006	1.10	1.10	0.00	0.24	1.6	0.0	0.0	-0.0	-10.7	12.8	0.0	1090.0	0.7
161	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	13.6	0.0	1084.6	0.7
160	103	5/16" NILSPI	0.667	0.667	0.009	1.10	1.10	0.00	0.24	2.1	0.0	0.0	-0.0	-14.9	14.8	0.0	1074.4	0.9
159	374	CTDMO-G P100	0.042	0.042	0.001	1.40	1.40	1.00	0.23	0.2	0.0	0.0	-0.0	-2.8	15.9	0.0	1066.8	0.9
158	103	5/16" NILSPI	0.953	0.953	0.016	1.10	1.10	0.00	0.23	2.9	0.0	0.0	-0.0	-21.3	17.5	0.0	1053.5	1.0
157	374	CTDMO-G P100	0.042	0.042	0.001	1.40	1.40	1.00	0.23	0.2	0.0	0.0	-0.0	-2.8	19.0	0.0	1042.7	1.0
156	103	5/16" NILSPI	1.210	1.210	0.025	1.10	1.10	0.00	0.22	3.4	0.0	0.0	-0.1	-27.1	20.8	0.0	1026.4	1.3
155	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	22.5	0.0	1012.8	1.3
154	15	coupler ec	0.020	0.020	0.000	1.50	1.50	1.50	0.22	0.1	0.0	0.0	-0.0	-6.0	22.5	0.0	1010.4	1.3
152	479	Release Floa	0.592	0.592	0.013	1.20	1.20	0.90	0.22	1.7	0.0	0.0	-0.0	0.0	22.6	0.0	1004.3	1.3
150	15	coupler ec	0.020	0.020	0.000	1.50	1.50	1.50	0.22	0.1	0.0	0.0	-0.0	-6.0	24.3	0.0	1004.3	1.4
149	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	24.4	0.0	998.3	1.4
148	256	CF14-1000	0.225	0.225	0.006	0.50	0.50	0.40	0.22	0.3	0.0	0.0	-0.0	13.0	24.4	0.0	995.9	1.4
146	103	5/16" NILSPI	0.095	0.095	0.002	1.10	1.10	0.00	0.22	0.3	0.0	0.0	-0.0	-2.1	24.8	0.0	1007.9	1.4
145	103	5/16" NILSPI	0.095	0.095	0.002	1.10	1.10	0.00	0.21	0.3	0.0	0.0	-0.0	-2.1	25.1	0.0	1005.8	1.4
144	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.21	0.0	0.0	0.0	-0.0	-2.4	25.2	0.0	1004.6	1.4
143	326	FL62" 1500m	1.887	1.887	1.887	0.50	0.50	0.50	0.21	2.3	0.0	0.0	0.0	750.0	25.2	0.0	1002.2	1.4
142	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.21	0.0	0.0	0.0	-0.0	-2.4	27.5	0.0	1752.2	0.9
141	103	5/16" NILSPI	2.334	2.335	0.041	1.10	1.10	0.00	0.21	5.7	0.0	0.0	-0.1	-52.2	30.5	0.0	1723.8	1.1



OOI Southern Ocean Flanking Mooring Model Analysis A and B
designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #001 – Simulation Parameter, cont.

#	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]
140	375	CTDMO-H P350	0.042	0.042	0.001	1.40	1.40	1.00	0.20	0.1	0.0	0.0	-0.0	-2.8	33.3	0.0	1697.5	1.1
139	103	5/16" NILSPI	2.382	2.382	0.051	1.10	1.10	0.00	0.19	5.1	0.0	0.0	-0.1	-53.3	36.0	0.0	1668.2	1.3
138	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	38.5	0.0	1641.4	1.3
137	103	5/16" NILSPI	2.382	2.382	0.060	1.10	1.10	0.00	0.18	4.5	0.0	0.0	-0.1	-53.3	40.9	0.0	1612.0	1.6
136	103	5/16" NILSPI	2.382	2.382	0.069	1.10	1.10	0.00	0.17	3.9	0.0	0.0	-0.1	-53.3	45.0	0.0	1558.6	1.8
135	375	CTDMO-H P350	0.042	0.042	0.001	1.40	1.40	1.00	0.16	0.1	0.0	0.0	-0.0	-2.8	47.0	0.0	1531.9	1.8
134	103	5/16" NILSPI	0.048	0.048	0.001	1.10	1.10	0.00	0.16	0.1	0.0	0.0	-0.0	-1.1	47.1	0.0	1528.6	1.8
133	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.16	0.0	0.0	0.0	-0.0	-2.4	47.1	0.0	1528.0	1.8
132	300	Load Cage	0.300	0.300	0.009	1.30	1.30	0.90	0.16	0.6	0.0	0.0	-0.0	-60.0	47.1	0.0	1525.6	1.8
131	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.16	0.0	0.0	0.0	-0.0	-0.7	47.7	0.0	1465.6	1.9
130	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.16	0.0	0.0	0.0	-0.0	-0.7	47.7	0.0	1464.9	1.9
129	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.16	0.0	0.0	0.0	-0.0	-0.7	47.7	0.0	1464.2	1.9
128	181	1/2" MR	0.040	0.040	0.001	1.60	1.60	1.00	0.16	0.1	0.0	0.0	-0.0	-6.1	47.8	0.0	1462.0	1.9
127	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.16	0.0	0.0	0.0	-0.0	-0.7	47.8	0.0	1457.4	1.9
126	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.16	0.0	0.0	0.0	-0.0	-0.7	47.9	0.0	1456.8	1.9
125	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.16	0.0	0.0	0.0	-0.0	-0.7	47.9	0.0	1456.0	1.9
124	274	HR17-4 seria	0.999	1.000	0.033	0.60	0.60	1.06	0.16	0.9	0.0	0.0	-0.0	88.0	47.9	0.0	1455.4	1.9
123	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.16	0.0	0.0	0.0	-0.0	-0.7	48.7	0.0	1543.3	1.8
122	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.16	0.0	0.0	0.0	-0.0	-0.7	48.8	0.0	1542.7	1.8
121	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.16	0.0	0.0	0.0	-0.0	-0.7	48.8	0.0	1541.9	1.8
120	274	HR17-4 seria	0.999	1.000	0.032	0.60	0.60	1.06	0.16	0.8	0.0	0.0	-0.0	88.0	48.8	0.0	1541.3	1.8
119	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.16	0.0	0.0	0.0	-0.0	-0.7	49.6	0.0	1629.2	1.7
118	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.16	0.0	0.0	0.0	-0.0	-0.7	49.7	0.0	1628.6	1.7
117	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.16	0.0	0.0	0.0	-0.0	-0.7	49.7	0.0	1627.8	1.7
116	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.16	0.0	0.0	0.0	-0.0	-0.7	49.7	0.0	1627.2	1.7
115	103	5/16" NILSPI	4.762	4.765	0.161	1.10	1.10	0.00	0.15	6.6	0.0	0.0	-0.2	-106.5	53.1	0.0	1573.3	2.1
113	103	5/16" NILSPI	4.761	4.765	0.192	1.10	1.10	0.00	0.14	5.5	0.0	0.0	-0.2	-106.5	59.1	0.0	1466.5	2.5
112	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	61.8	0.0	1413.1	2.5
111	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	61.8	0.0	1412.4	2.5
110	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	61.8	0.0	1411.7	2.5
109	274	HR17-4 seria	0.999	1.000	0.044	0.60	0.60	1.06	0.13	0.6	0.0	0.0	-0.0	88.0	61.8	0.0	1411.0	2.5



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #001 – Simulation Parameter, cont.

#	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]
108	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	62.4	0.0	1499.0	2.4
107	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	62.4	0.0	1498.3	2.4
106	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	62.4	0.0	1497.6	2.4
105	274	HR17-4 seria	0.999	1.000	0.042	0.60	0.60	1.06	0.13	0.6	0.0	0.0	-0.0	88.0	62.4	0.0	1496.9	2.4
104	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	63.0	0.0	1584.9	2.3
103	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	63.0	0.0	1584.2	2.3
102	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	63.0	0.0	1583.5	2.3
101	103	5/16" NILSPI	4.761	4.765	0.204	1.10	1.10	0.00	0.13	4.7	0.0	0.0	-0.2	-106.5	65.4	0.0	1529.6	2.6
100	103	5/16" NILSPI	4.759	4.765	0.234	1.10	1.10	0.00	0.12	4.1	0.0	0.0	-0.2	-106.5	69.8	0.0	1422.9	3.0
99	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.12	0.0	0.0	0.0	-0.0	-0.7	71.8	0.0	1369.4	3.0
98	53	PL 3t 3/4"	0.010	0.010	0.001	1.50	1.50	1.50	0.12	0.0	0.0	0.0	-0.0	-0.7	71.8	0.0	1368.8	3.0
97	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.12	0.0	0.0	0.0	-0.0	-0.7	71.8	0.0	1368.0	3.0
96	274	HR17-4 seria	0.999	1.000	0.052	0.60	0.60	1.06	0.12	0.5	0.0	0.0	-0.0	88.0	71.9	0.0	1367.4	3.0
95	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.12	0.0	0.0	0.0	-0.0	-0.7	72.3	0.0	1455.3	2.8
94	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.12	0.0	0.0	0.0	-0.0	-0.7	72.3	0.0	1454.7	2.8
93	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.12	0.0	0.0	0.0	-0.0	-0.7	72.3	0.0	1453.9	2.8
92	274	HR17-4 seria	0.999	1.000	0.050	0.60	0.60	1.06	0.12	0.5	0.0	0.0	-0.0	88.0	72.3	0.0	1453.3	2.8
91	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.12	0.0	0.0	0.0	-0.0	-0.7	72.8	0.0	1541.3	2.7
90	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.12	0.0	0.0	0.0	-0.0	-0.7	72.8	0.0	1540.6	2.7
89	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.12	0.0	0.0	0.0	-0.0	-0.7	72.8	0.0	1539.9	2.7
88	103	5/16" NILSPI	4.759	4.765	0.240	1.10	1.10	0.00	0.12	3.8	0.0	0.0	-0.2	-106.5	74.7	0.0	1486.0	3.1
87	103	5/16" NILSPI	4.757	4.765	0.270	1.10	1.10	0.00	0.11	3.5	0.0	0.0	-0.2	-106.5	78.4	0.0	1379.3	3.5
86	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	80.1	0.0	1325.8	3.5
85	53	PL 3t 3/4"	0.010	0.010	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	80.1	0.0	1325.1	3.5
84	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	80.1	0.0	1324.4	3.5
83	103	5/16" NILSPI	0.951	0.953	0.058	1.10	1.10	0.00	0.11	0.7	0.0	0.0	-0.0	-21.3	80.4	0.0	1313.2	3.5
82	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	80.8	0.0	1302.4	3.5
81	53	PL 3t 3/4"	0.010	0.010	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	80.8	0.0	1301.7	3.6
80	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	80.8	0.0	1301.0	3.6
79	103	5/16" NILSPI	0.476	0.476	0.030	1.10	1.10	0.00	0.11	0.3	0.0	0.0	-0.0	-10.7	81.0	0.0	1295.1	3.6
78	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	81.1	0.0	1289.7	3.6



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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #001 – Simulation Parameter, cont.

#	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]
77	53	PL 3t 3/4"	0.010	0.010	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	81.2	0.0	1289.0	3.6
76	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	81.2	0.0	1288.3	3.6
75	103	5/16" NILSPI	0.143	0.143	0.009	1.10	1.10	0.00	0.11	0.1	0.0	0.0	-0.0	-3.2	81.2	0.0	1286.1	3.6
74	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	81.3	0.0	1284.4	3.6
73	53	PL 3t 3/4"	0.010	0.010	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	81.3	0.0	1283.7	3.6
72	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	81.3	0.0	1283.0	3.6
71	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	81.8	0.0	1283.0	3.6
70	53	PL 3t 3/4"	0.010	0.010	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	81.8	0.0	1282.3	3.6
69	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	81.8	0.0	1281.6	3.7
68	181	1/2" MR	0.100	0.100	0.006	1.60	1.60	1.00	0.11	0.1	0.0	0.0	-0.0	-15.2	81.8	0.0	1274.9	3.7
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	81.9	0.0	1265.7	3.7
66	53	PL 3t 3/4"	0.010	0.010	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	81.9	0.0	1265.1	3.7
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	81.9	0.0	1264.3	3.7
64	274	HR17-4 seria	0.998	1.000	0.065	0.60	0.60	1.06	0.11	0.4	0.0	0.0	-0.0	88.0	81.9	0.0	1263.7	3.7
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	82.3	0.0	1351.6	3.5
62	53	PL 3t 3/4"	0.010	0.010	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	82.3	0.0	1351.0	3.5
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	82.3	0.0	1350.2	3.5
60	274	HR17-4 seria	0.998	1.000	0.061	0.60	0.60	1.06	0.11	0.4	0.0	0.0	-0.0	88.0	82.3	0.0	1349.6	3.5
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	82.7	0.0	1437.6	3.3
58	53	PL 3t 3/4"	0.010	0.010	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	82.7	0.0	1436.9	3.3
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	82.7	0.0	1436.2	3.3
56	274	HR17-4 seria	0.998	1.000	0.058	0.60	0.60	1.06	0.11	0.4	0.0	0.0	-0.0	88.0	82.7	0.0	1435.5	3.3
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	83.1	0.0	1523.5	3.1
54	53	PL 3t 3/4"	0.010	0.010	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-0.7	83.1	0.0	1522.8	3.1
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	83.1	0.0	1522.1	3.1
52	274	HR17-4 seria	0.999	1.000	0.055	0.60	0.60	1.06	0.11	0.4	0.0	0.0	-0.0	88.0	83.1	0.0	1521.4	3.1
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	83.5	0.0	1609.4	3.0
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	83.5	0.0	1608.7	3.0
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	83.5	0.0	1608.0	3.0
48	274	HR17-4 seria	0.999	1.000	0.052	0.60	0.60	1.06	0.11	0.4	0.0	0.0	-0.0	88.0	83.6	0.0	1607.3	3.0
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	83.9	0.0	1695.3	2.8



OOI Southern Ocean Flanking Mooring Model Analysis A and B
designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #001 – Simulation Parameter, cont.

#	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]
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	83.9	0.0	1694.6	2.8
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	84.0	0.0	1693.9	2.8
44	274	HR17-4 seria	0.999	1.000	0.050	0.60	0.60	1.06	0.11	0.4	0.0	0.0	-0.0	88.0	84.0	0.0	1693.2	2.8
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	84.3	0.0	1781.2	2.7
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	84.4	0.0	1780.6	2.7
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	84.4	0.0	1779.8	2.7
40	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	84.4	0.0	1779.2	2.7
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	84.8	0.0	1867.1	2.6
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	84.8	0.0	1866.5	2.6
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	84.8	0.0	1865.7	2.6
36	274	HR17-4 seria	0.999	1.000	0.045	0.60	0.60	1.06	0.11	0.4	0.0	0.0	-0.0	88.0	84.8	0.0	1865.1	2.6
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	85.2	0.0	1953.1	2.5
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	85.2	0.0	1952.4	2.5
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	85.2	0.0	1951.7	2.5
32	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	85.2	0.0	1951.0	2.5
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	85.6	0.0	2039.0	2.4
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	85.6	0.0	2038.3	2.4
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	85.6	0.0	2037.6	2.4
28	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	85.6	0.0	2030.8	2.4
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	85.7	0.0	2021.7	2.4
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	85.7	0.0	2021.1	2.4
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	85.7	0.0	2020.3	2.4
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	85.7	0.0	2019.2	2.4
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	85.7	0.0	2013.9	2.4
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	85.7	0.0	2012.8	2.4
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	85.8	0.0	2012.1	2.4
20	478	Dual Release	0.288	0.288	0.012	1.20	1.20	0.90	0.11	0.2	0.0	0.0	-0.0	-61.0	85.8	0.0	2011.0	2.4
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	86.0	0.0	1950.0	2.5
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	86.0	0.0	1943.2	2.5
17	34	AS 6t 7/8"	0.012	0.012	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.6	86.0	0.0	1938.4	2.5
16	64	EL 6t 7/8"	0.012	0.012	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.0	86.1	0.0	1936.8	2.5



OOI Southern Ocean Flanking Mooring Model Analysis A and B
designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #001 – Simulation Parameter, cont.

#	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]
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	86.1	0.0	1935.8	2.5
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	86.1	0.0	1929.0	2.6
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	86.2	0.0	1919.9	2.6
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	86.2	0.0	1919.2	2.6
11	34	AS 6t 7/8"	0.012	0.012	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.6	86.2	0.0	1918.5	2.6
10	113	Nystron-1"	0.519	0.520	0.023	1.30	1.30	0.02	0.11	0.4	0.0	0.0	-0.0	-2.0	86.4	0.0	1916.0	2.6
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	86.6	0.0	1915.0	2.6
8	34	AS 6t 7/8"	0.012	0.012	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.6	87.1	0.0	1915.0	2.6
7	64	EL 6t 7/8"	0.012	0.012	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.0	87.1	0.0	1913.4	2.6
6	34	AS 6t 7/8"	0.012	0.012	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.6	87.1	0.0	1912.4	2.6
5	183	3/4" MR	0.150	0.150	0.007	1.60	1.60	1.00	0.11	0.2	0.0	0.0	-0.0	-33.0	87.2	0.0	1897.6	2.7
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	87.3	0.0	1877.8	2.7
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	87.3	0.0	1876.7	2.7
2	34	AS 6t 7/8"	0.012	0.012	0.001	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-1.6	87.3	0.0	1876.0	2.7
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	87.3	0.0	1874.4	0.0



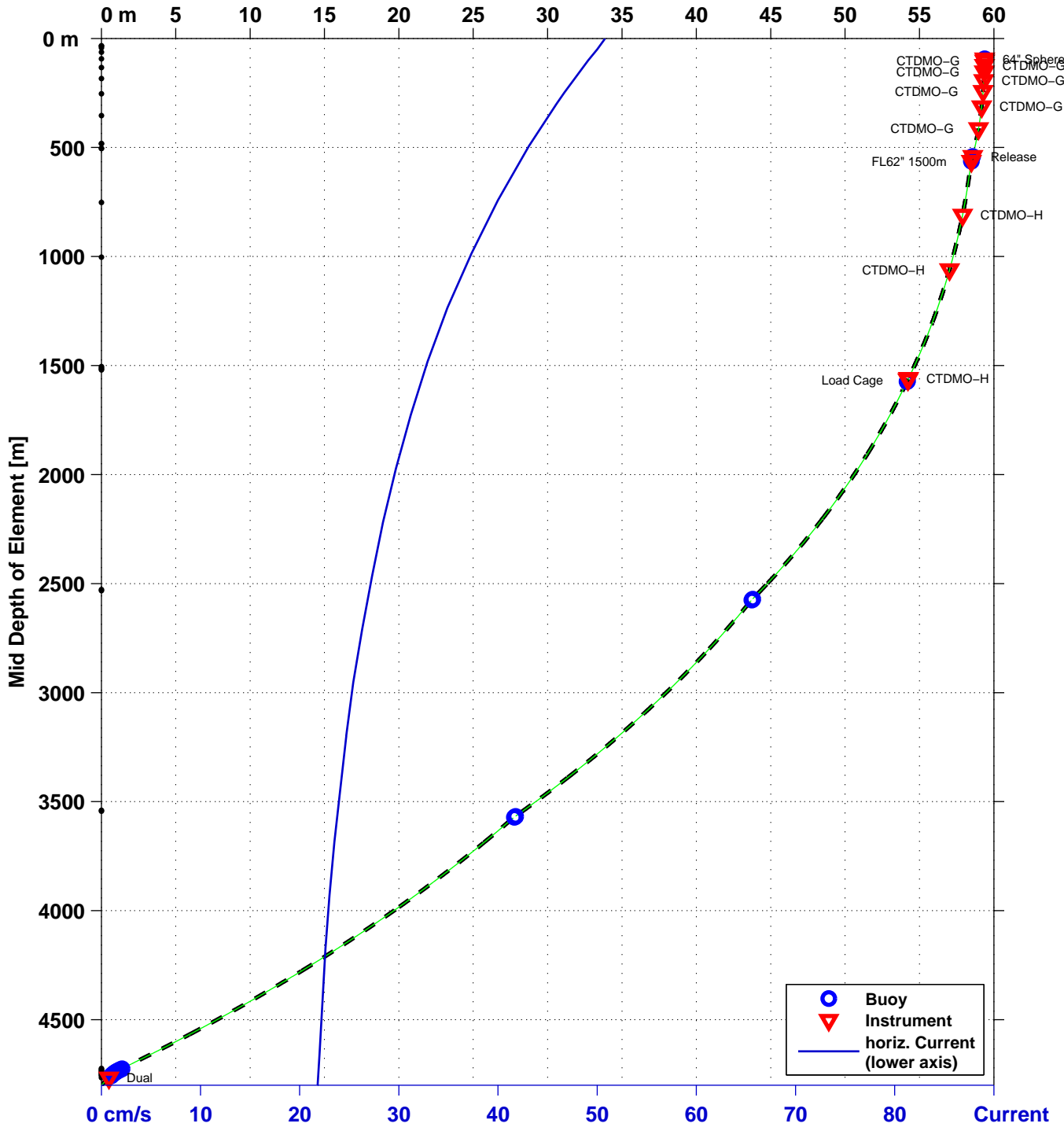
OOI Southern Ocean Flanking Mooring Model Analysis A and B designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg
 Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #002 – Subduction [m]: max. 59m, Top at 93m



Event #002: Vert / Horiz anchor load : 1841 kg / 335 kg
 Vert / Horiz anchor safety : 125 % / 120 %,
 Safe Wet MACE anchor weight : 2346 kg, (max. 500 kg or Horiz. safety)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



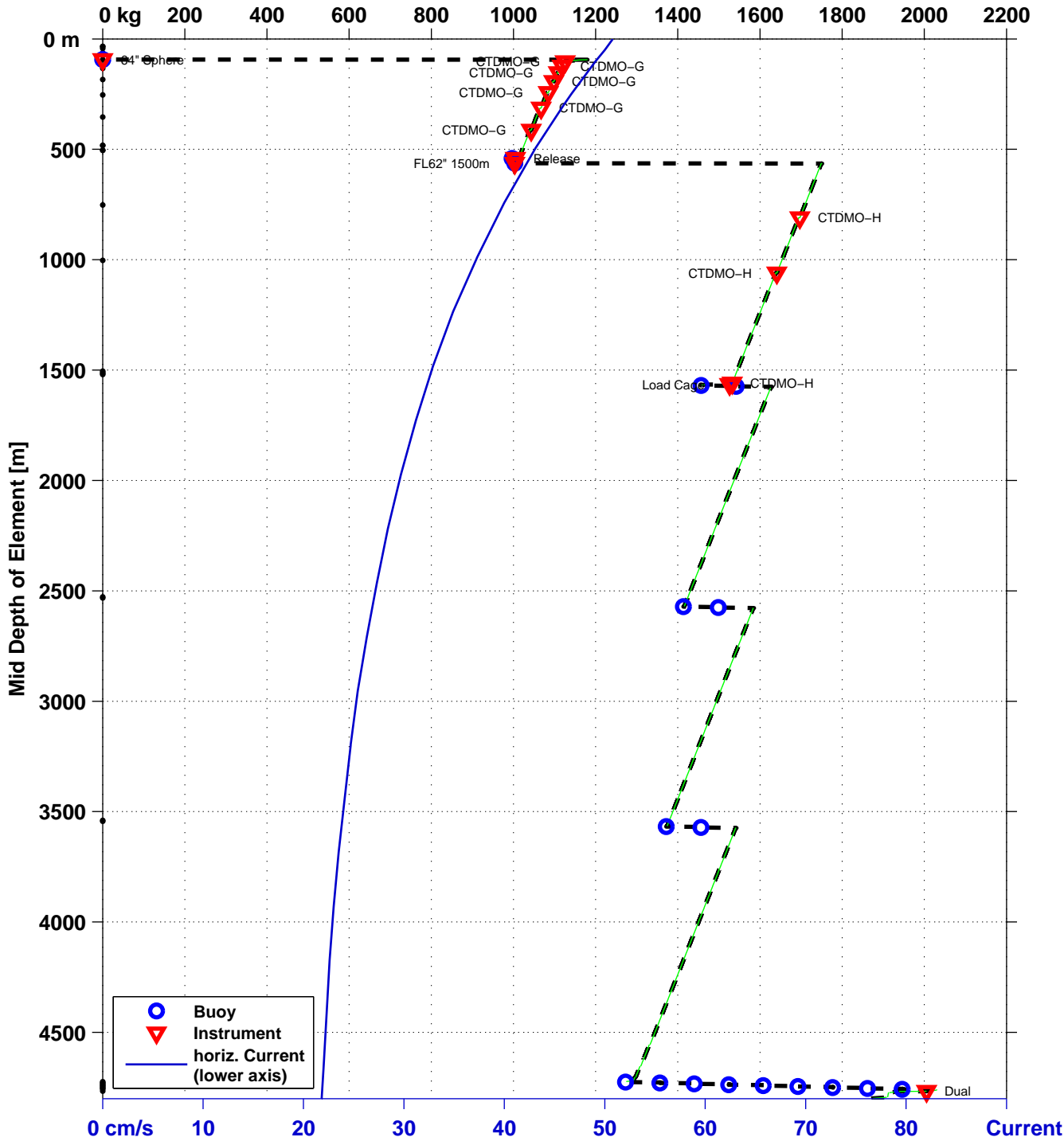
OOI Southern Ocean Flanking Mooring Model Analysis A and B designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg
 Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)

Event #002 – Tension [kg]



Event #002: Vert / Horiz anchor load : 1841 kg / 335 kg
 Vert / Horiz anchor safety : 125 % / 120 %,
 Safe Wet MACE anchor weight : 2346 kg, (max. 500 kg or Horiz. safety)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



OOI Southern Ocean Flanking Mooring Model Analysis A and B
designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...\\imp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg
Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #002 – Simulation Result

#	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]
174	306	64" Sphere 100	2.3	1180.0	2.087	0.50	0.49	13.2	0.0	0.0	0.00	0.00	92.0	59.4	704.1	0.6
173	17	U-Joint	0.3	-16.3	0.090	1.50	0.49	1.7	1180.1	7.4	0.00	0.00	94.4	59.4	704.1	0.6
172	141	1/2" EM chain	5.0	-35.0	1.000	1.30	0.49	16.4	1163.8	11.6	0.00	0.00	95.0	59.4	704.1	1.4
171	13	ind. term	0.1	-2.4	0.005	1.50	0.49	0.1	1128.8	7.1	0.00	0.00	99.6	59.4	704.0	1.6
170	103	5/16" NILSPIN	3.0	-0.6	0.029	1.10	0.49	0.4	1126.4	24.2	0.01	0.25	100.1	59.4	704.0	1.6
169	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.49	0.7	1125.8	11.3	0.00	0.00	102.6	59.4	703.9	1.6
168	103	5/16" NILSPIN	20.0	-4.3	0.191	1.10	0.49	2.6	1123.0	24.1	0.05	0.25	103.1	59.4	703.9	1.8
167	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.49	0.7	1118.7	11.2	0.00	0.00	122.7	59.4	703.3	1.8
166	103	5/16" NILSPIN	30.1	-6.4	0.286	1.10	0.48	3.9	1115.9	24.0	0.07	0.25	123.2	59.4	703.3	2.0
165	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.48	0.7	1109.5	11.1	0.00	0.00	152.7	59.4	702.3	2.1
164	103	5/16" NILSPIN	40.1	-8.5	0.381	1.10	0.48	5.0	1106.7	23.8	0.10	0.24	153.2	59.4	702.3	2.4
163	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.48	0.7	1098.2	11.0	0.00	0.00	192.8	59.3	700.7	2.4
162	103	5/16" NILSPIN	50.1	-10.6	0.476	1.10	0.47	6.1	1095.4	23.5	0.12	0.24	193.3	59.3	700.7	2.8
161	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.47	0.7	1084.8	10.8	0.00	0.00	242.8	59.3	698.5	2.8
160	103	5/16" NILSPIN	70.2	-14.9	0.667	1.10	0.46	8.2	1082.0	23.3	0.17	0.24	243.3	59.3	698.5	3.3
159	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.46	0.6	1067.1	10.7	0.00	0.00	312.9	59.2	694.7	3.3
158	103	5/16" NILSPIN	100.2	-21.3	0.953	1.10	0.45	11.0	1064.3	22.9	0.23	0.23	313.4	59.2	694.7	4.0
157	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.44	0.6	1043.1	10.4	0.00	0.00	412.9	59.0	688.3	4.0
156	103	5/16" NILSPIN	127.3	-27.1	1.210	1.10	0.43	13.0	1040.3	22.4	0.29	0.23	413.4	59.0	688.3	4.9
155	13	ind. term	0.1	-2.4	0.005	1.50	0.43	0.1	1013.3	6.3	0.00	0.00	539.9	58.6	678.4	4.9
154	15	coupler ec	0.2	-6.0	0.020	1.50	0.43	0.3	1010.9	6.3	0.00	0.00	540.0	58.6	678.4	4.9
152	479	Release Float	1.0	0.0	0.592	1.20	0.43	6.8	1004.9	10.0	0.00	0.00	540.6	58.6	678.4	5.0
150	15	coupler ec	0.2	-6.0	0.020	1.50	0.43	0.3	1005.0	6.3	0.00	0.00	541.2	58.6	678.3	5.3
149	13	ind. term	0.1	-2.4	0.005	1.50	0.43	0.1	999.0	6.2	0.00	0.00	541.4	58.6	678.3	5.4
148	256	CFL4-1000	0.0	13.0	0.225	0.50	0.43	1.1	996.6	16.6	0.00	0.00	541.4	58.6	678.3	5.4
146	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.42	1.0	1009.6	21.7	0.02	0.22	541.9	58.6	678.3	5.5
145	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.42	1.0	1007.4	21.7	0.02	0.22	551.9	58.5	677.3	5.5
144	13	ind. term	0.1	-2.4	0.005	1.50	0.42	0.1	1005.3	6.3	0.00	0.00	561.4	58.5	676.4	5.5
143	326	FL62" 1500m ADC	2.8	750.0	1.887	0.50	0.42	8.8	1002.9	10.0	0.00	0.00	562.9	58.5	676.3	5.6
142	13	ind. term	0.1	-2.4	0.005	1.50	0.42	0.1	1751.4	10.9	0.00	0.00	564.3	58.5	676.1	3.5
141	103	5/16" NILSPIN	245.9	-52.2	2.335	1.10	0.41	22.2	1749.0	37.6	0.94	0.38	564.9	58.5	676.1	4.3



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #002 – Simulation Result, cont.

#	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]
140	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.39	0.5	1697.0	17.0	0.00	0.00	809.8	57.9	659.3	4.3
139	103	5/16" NILSPIN	250.9	-53.3	2.382	1.10	0.38	19.6	1694.2	36.4	0.92	0.37	810.3	57.9	659.3	5.2
138	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.37	0.4	1641.1	16.4	0.00	0.00	1059.8	57.0	638.4	5.2
137	103	5/16" NILSPIN	250.9	-53.3	2.382	1.10	0.35	17.0	1638.3	35.2	0.89	0.36	1060.3	57.0	638.4	6.0
136	103	5/16" NILSPIN	250.9	-53.3	2.382	1.10	0.33	15.0	1585.3	34.1	0.86	0.35	1310.0	55.8	613.9	6.8
135	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.32	0.3	1532.4	15.3	0.00	0.00	1558.8	54.3	586.0	6.8
134	103	5/16" NILSPIN	5.0	-1.1	0.048	1.10	0.32	0.3	1529.7	32.9	0.02	0.34	1559.3	54.3	586.0	6.8
133	13	ind. term	0.1	-2.4	0.005	1.50	0.32	0.0	1528.6	9.6	0.00	0.00	1563.8	54.2	585.4	6.8
132	300	Load Cage	1.5	-60.0	0.300	1.30	0.32	2.2	1526.2	15.3	0.00	0.00	1564.6	54.2	585.4	6.8
131	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.32	0.1	1466.7	12.2	0.00	0.00	1565.4	54.2	585.3	7.2
130	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.32	0.1	1466.0	12.2	0.00	0.00	1565.5	54.2	585.2	7.2
129	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.32	0.1	1465.3	12.2	0.00	0.00	1565.6	54.2	585.2	7.2
128	181	1/2" MR	2.0	-6.1	0.040	1.60	0.32	0.3	1464.6	14.6	0.00	0.00	1566.1	54.2	585.2	7.2
127	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.32	0.1	1458.6	12.2	0.00	0.00	1567.6	54.2	585.0	7.2
126	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.32	0.1	1458.0	12.1	0.00	0.00	1567.7	54.2	585.0	7.3
125	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.32	0.1	1457.2	12.1	0.00	0.00	1567.8	54.2	584.9	7.3
124	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.32	3.3	1456.6	14.6	0.00	0.00	1569.8	54.2	584.9	7.3
123	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.32	0.1	1543.9	12.9	0.00	0.00	1571.8	54.2	584.4	7.0
122	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.32	0.1	1543.3	12.9	0.00	0.00	1571.9	54.2	584.4	7.0
121	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.32	0.1	1542.5	12.9	0.00	0.00	1572.0	54.2	584.4	7.0
120	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.32	3.3	1541.9	15.4	0.00	0.00	1574.1	54.2	584.4	7.0
119	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.32	0.1	1629.3	13.6	0.00	0.00	1576.1	54.1	583.9	6.7
118	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.32	0.1	1628.6	13.6	0.00	0.00	1576.1	54.1	583.9	6.7
117	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.32	0.1	1627.9	13.6	0.00	0.00	1576.2	54.1	583.9	6.7
116	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.32	0.1	1627.2	13.6	0.00	0.00	1576.3	54.1	583.9	6.8
115	103	5/16" NILSPIN	501.7	-106.5	4.765	1.10	0.31	25.3	1626.6	35.0	1.74	0.35	1576.8	54.1	583.9	8.2
113	103	5/16" NILSPIN	501.6	-106.5	4.765	1.10	0.28	20.9	1521.0	32.7	1.63	0.33	2074.3	49.9	518.7	9.7
112	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.27	0.0	1415.8	11.8	0.00	0.00	2569.4	43.8	440.9	9.7
111	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.27	0.1	1415.2	11.8	0.00	0.00	2569.5	43.8	440.9	9.7
110	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.27	0.0	1414.4	11.8	0.00	0.00	2569.6	43.8	440.9	9.7
109	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.27	2.3	1413.8	14.1	0.00	0.00	2571.6	43.8	440.9	9.7



OOI Southern Ocean Flanking Mooring Model Analysis A and B
designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #002 – Simulation Result, cont.

#	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]
108	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.27	0.0	1500.6	12.5	0.00	0.00	2573.6	43.7	440.2	9.2
107	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.27	0.1	1500.0	12.5	0.00	0.00	2573.7	43.7	440.2	9.2
106	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.27	0.0	1499.3	12.5	0.00	0.00	2573.8	43.7	440.2	9.2
105	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.27	2.3	1498.6	15.0	0.00	0.00	2575.8	43.7	440.2	9.2
104	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.27	0.0	1585.5	13.2	0.00	0.00	2577.8	43.7	439.5	8.8
103	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.27	0.1	1584.9	13.2	0.00	0.00	2577.9	43.7	439.5	8.8
102	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.27	0.0	1584.2	13.2	0.00	0.00	2577.9	43.7	439.5	8.8
101	103	5/16" NILSPIN	501.7	-106.5	4.765	1.10	0.26	17.8	1583.5	34.0	1.70	0.34	2578.5	43.7	439.5	10.1
100	103	5/16" NILSPIN	501.6	-106.5	4.765	1.10	0.24	15.7	1478.5	31.8	1.58	0.32	3073.3	36.8	357.0	11.6
99	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.24	0.0	1374.0	11.4	0.00	0.00	3565.5	27.9	262.6	11.6
98	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.24	0.0	1373.3	11.4	0.00	0.00	3565.6	27.9	262.6	11.6
97	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.24	0.0	1372.6	11.4	0.00	0.00	3565.6	27.9	262.5	11.6
96	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.24	1.8	1371.9	13.7	0.00	0.00	3567.7	27.8	262.5	11.6
95	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.24	0.0	1458.3	12.2	0.00	0.00	3569.6	27.8	261.7	11.0
94	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.24	0.0	1457.6	12.1	0.00	0.00	3569.7	27.8	261.7	11.0
93	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.24	0.0	1456.9	12.1	0.00	0.00	3569.8	27.8	261.7	11.0
92	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.24	1.8	1456.3	14.6	0.00	0.00	3571.8	27.8	261.7	11.0
91	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.24	0.0	1542.8	12.9	0.00	0.00	3573.8	27.7	260.9	10.4
90	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.24	0.0	1542.1	12.9	0.00	0.00	3573.9	27.7	260.9	10.5
89	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.24	0.0	1541.4	12.8	0.00	0.00	3574.0	27.7	260.9	10.5
88	103	5/16" NILSPIN	501.6	-106.5	4.765	1.10	0.23	14.2	1540.7	33.1	1.65	0.33	3574.5	27.7	260.9	11.8
87	103	5/16" NILSPIN	501.5	-106.5	4.765	1.10	0.22	13.0	1436.3	30.9	1.53	0.31	4066.7	18.2	164.1	13.3
86	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1332.4	11.1	0.00	0.00	4555.8	6.2	55.1	13.3
85	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1331.8	11.1	0.00	0.00	4555.9	6.2	55.0	13.3
84	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	4555.9	6.2	55.0	13.3
83	103	5/16" NILSPIN	100.3	-21.3	0.953	1.10	0.22	2.5	1330.4	28.6	0.29	0.29	4556.5	6.2	55.0	13.7
82	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1309.7	10.9	0.00	0.00	4653.5	3.5	31.6	13.7
81	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1309.1	10.9	0.00	0.00	4653.6	3.5	31.5	13.7
80	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1308.3	10.9	0.00	0.00	4653.7	3.5	31.5	13.7
79	103	5/16" NILSPIN	50.1	-10.7	0.476	1.10	0.22	1.2	1307.7	28.1	0.14	0.29	4654.2	3.5	31.5	13.9
78	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1297.4	10.8	0.00	0.00	4702.5	2.0	19.6	13.9



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #002 – Simulation Result, cont.

#	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]
77	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1296.7	10.8	0.00	0.00	4702.5	2.0	19.5	13.9
76	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1296.0	10.8	0.00	0.00	4702.6	2.0	19.5	13.9
75	103	5/16" NILSPIN	15.0	-3.2	0.143	1.10	0.22	0.4	1295.4	27.8	0.04	0.29	4703.2	2.0	19.5	13.9
74	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1292.3	10.8	0.00	0.00	4717.3	1.6	15.9	13.9
73	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1291.6	10.8	0.00	0.00	4717.4	1.6	15.9	14.0
72	491	Parachute	0.0	0.0	1.500	0.50	0.22	1.9	1290.9	12.9	0.00	0.00	4717.4	1.6	15.8	14.0
71	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1291.4	10.8	0.00	0.00	4717.5	1.6	15.8	14.0
70	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1290.7	10.8	0.00	0.00	4717.6	1.6	15.8	14.1
69	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1290.0	10.8	0.00	0.00	4717.6	1.6	15.8	14.1
68	181	1/2" MR	5.0	-15.2	0.100	1.60	0.22	0.4	1289.4	12.9	0.00	0.00	4718.2	1.5	15.8	14.2
67	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1274.7	10.6	0.00	0.00	4722.6	1.4	14.6	14.3
66	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1274.0	10.6	0.00	0.00	4722.6	1.4	14.5	14.3
65	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1273.3	10.6	0.00	0.00	4722.7	1.4	14.5	14.3
64	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.5	1272.7	12.7	0.00	0.00	4724.8	1.4	14.5	14.3
63	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1358.2	11.3	0.00	0.00	4726.7	1.3	13.5	13.4
62	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1357.5	11.3	0.00	0.00	4726.8	1.3	13.5	13.4
61	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1356.8	11.3	0.00	0.00	4726.8	1.3	13.5	13.5
60	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.5	1356.1	13.6	0.00	0.00	4728.9	1.3	13.5	13.5
59	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1441.9	12.0	0.00	0.00	4730.8	1.2	12.5	12.7
58	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1441.3	12.0	0.00	0.00	4730.9	1.1	12.5	12.7
57	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1440.5	12.0	0.00	0.00	4731.0	1.1	12.5	12.7
56	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.5	1439.9	14.4	0.00	0.00	4733.0	1.1	12.5	12.7
55	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1525.9	12.7	0.00	0.00	4734.9	1.0	11.6	12.1
54	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1525.2	12.7	0.00	0.00	4735.0	1.0	11.6	12.1
53	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1524.5	12.7	0.00	0.00	4735.1	1.0	11.5	12.1
52	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.5	1523.9	15.2	0.00	0.00	4737.1	1.0	11.5	12.1
51	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1610.1	13.4	0.00	0.00	4739.1	1.0	10.7	11.5
50	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1609.4	13.4	0.00	0.00	4739.2	1.0	10.7	11.5
49	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1608.7	13.4	0.00	0.00	4739.3	0.9	10.7	11.5
48	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.5	1608.0	16.1	0.00	0.00	4741.3	0.9	10.7	11.5
47	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1694.4	14.1	0.00	0.00	4743.2	0.9	9.9	11.0



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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg
 Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #002 – Simulation Result, cont.

#	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]
46	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1693.7	14.1	0.00	0.00	4743.3	0.9	9.8	11.0
45	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1693.0	14.1	0.00	0.00	4743.4	0.9	9.8	11.0
44	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.5	1692.4	16.9	0.00	0.00	4745.4	0.9	9.8	11.0
43	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1778.9	14.8	0.00	0.00	4747.4	0.8	9.0	10.5
42	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1778.2	14.8	0.00	0.00	4747.5	0.8	9.0	10.5
41	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1777.5	14.8	0.00	0.00	4747.6	0.8	9.0	10.5
40	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.5	1776.8	17.8	0.00	0.00	4749.6	0.8	9.0	10.5
39	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1863.4	15.5	0.00	0.00	4751.6	0.7	8.3	10.1
38	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1862.8	15.5	0.00	0.00	4751.7	0.7	8.3	10.1
37	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1862.1	15.5	0.00	0.00	4751.8	0.7	8.2	10.1
36	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.5	1861.4	18.6	0.00	0.00	4753.8	0.7	8.2	10.1
35	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1948.1	16.2	0.00	0.00	4755.8	0.7	7.5	9.7
34	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1947.5	16.2	0.00	0.00	4755.8	0.7	7.5	9.7
33	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1946.8	16.2	0.00	0.00	4755.9	0.7	7.5	9.7
32	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.22	1.5	1946.1	19.5	0.00	0.00	4758.0	0.6	7.5	9.7
31	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	2032.9	16.9	0.00	0.00	4759.9	0.6	6.8	9.3
30	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	2032.3	16.9	0.00	0.00	4760.0	0.6	6.8	9.3
29	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	2031.6	16.9	0.00	0.00	4760.1	0.6	6.8	9.3
28	181	1/2" MR	5.0	-15.2	0.100	1.60	0.22	0.4	2030.9	20.3	0.00	0.00	4760.6	0.6	6.8	9.4
27	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	2015.9	16.8	0.00	0.00	4765.1	0.5	6.0	9.4
26	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	2015.3	16.8	0.00	0.00	4765.2	0.5	6.0	9.4
25	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.22	0.0	2014.5	11.2	0.00	0.00	4765.3	0.5	5.9	9.4
24	94	Swivel 5t	0.2	-5.3	0.025	1.20	0.22	0.1	2013.5	20.1	0.00	0.00	4765.4	0.5	5.9	9.4
23	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.22	0.0	2008.2	11.2	0.00	0.00	4765.6	0.5	5.9	9.4
22	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	2007.1	16.7	0.00	0.00	4765.7	0.5	5.9	9.4
21	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.22	0.0	2006.4	11.1	0.00	0.00	4765.8	0.5	5.9	9.4
20	478	Dual Release	1.0	-61.0	0.288	1.20	0.22	0.9	2005.4	20.1	0.00	0.00	4766.3	0.5	5.8	9.5
19	480	1/2" dropchain	0.6	-6.8	0.024	1.60	0.22	0.1	1945.2	12.2	0.00	0.00	4767.2	0.5	5.7	9.8
18	76	ML 17t 1-1/4"	0.2	-4.8	0.026	1.50	0.22	0.1	1938.5	4.4	0.00	0.00	4767.6	0.5	5.6	9.8
17	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.22	0.0	1933.7	8.1	0.00	0.00	4767.7	0.5	5.5	9.8
16	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.22	0.0	1932.2	8.1	0.00	0.00	4767.8	0.5	5.5	9.8



OOI Southern Ocean Flanking Mooring Model Analysis A and B
designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...\\imp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #002 – Simulation Result, cont.

#	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]
15	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1931.2	16.1	0.00	0.00	4767.9	0.5	5.5	9.9
14	181	1/2" MR	5.0	-15.2	0.100	1.60	0.22	0.4	1930.6	19.3	0.00	0.00	4768.5	0.5	5.5	9.9
13	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.22	0.0	1915.6	16.0	0.00	0.00	4772.9	0.4	4.6	9.9
12	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1914.9	16.0	0.00	0.00	4773.0	0.4	4.6	10.0
11	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.22	0.0	1914.2	8.0	0.00	0.00	4773.1	0.4	4.6	10.0
10	113	Nystron-1"	20.7	-2.0	0.520	1.30	0.22	1.7	1912.7	11.4	0.68	3.41	4773.7	0.4	4.6	10.0
9	491	Parachute	0.0	0.0	1.500	0.50	0.22	1.9	1910.7	19.1	0.00	0.00	4793.5	0.1	1.0	10.0
8	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.22	0.0	1911.1	8.0	0.00	0.00	4793.6	0.1	1.0	10.1
7	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.22	0.0	1909.5	8.0	0.00	0.00	4793.7	0.1	1.0	10.1
6	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.22	0.0	1908.5	8.0	0.00	0.00	4793.8	0.1	0.9	10.1
5	183	3/4" MR	5.0	-33.1	0.150	1.60	0.22	0.6	1907.0	7.9	0.00	0.00	4794.3	0.1	0.9	10.3
4	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.22	0.0	1874.5	10.4	0.00	0.00	4798.8	0.0	0.0	10.3
3	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.22	0.0	1873.4	15.6	0.00	0.00	4798.9	0.0	0.0	10.3
2	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.22	0.0	1872.7	7.8	0.00	0.00	4799.0	0.0	0.0	10.3
1	522	double MACE Anch	1.0	-2742.1	1.200	1.20	0.22	3.7	1871.2	31.2	0.00	0.00	4800.0	0.0	0.0	0.0

Max. 37.6% Static Tension at:

141	103	5/16" NILSPIN	245.9	-52.2	2.335	1.10	0.41	22.2	1749.0	37.6	0.94	0.38	564.9	58.5	676.1	4.3
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Vert/Horiz Anchor Load : 1841 kg / 335 kg
 Wet MACE Anchor Weight : 2742 kg
 Safe MACE Anchor Weight : 2346 kg



OOI Southern Ocean Flanking Mooring Model Analysis A and B
designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #002 – Simulation Parameter

#	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]
174	306	64" Sphere	2.087	2.087	2.087	0.50	0.50	0.50	0.49	13.2	0.0	0.0	0.0	1180.0	0.0	0.0	0.0	0.6
173	17	U-Joint	0.090	0.090	0.001	1.50	1.50	1.50	0.49	1.7	0.0	0.0	-0.0	-16.3	13.2	0.0	1180.0	0.6
172	141	1/2" EM chai	1.000	1.000	0.019	1.30	1.30	1.00	0.49	16.4	0.0	0.0	-0.3	-35.0	21.5	0.0	1149.6	1.4
171	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.49	0.1	0.0	0.0	-0.0	-2.4	31.4	0.0	1128.4	1.6
170	103	5/16" NILSPI	0.029	0.029	0.001	1.10	1.10	0.00	0.49	0.4	0.0	0.0	-0.0	-0.6	31.6	0.0	1125.8	1.6
169	374	CTDMO-G P100	0.042	0.042	0.001	1.40	1.40	1.00	0.49	0.7	0.0	0.0	-0.0	-2.8	31.9	0.0	1125.3	1.6
168	103	5/16" NILSPI	0.191	0.191	0.006	1.10	1.10	0.00	0.49	2.6	0.0	0.0	-0.1	-4.3	33.8	0.0	1120.4	1.8
167	374	CTDMO-G P100	0.042	0.042	0.001	1.40	1.40	1.00	0.49	0.7	0.0	0.0	-0.0	-2.8	35.2	0.0	1118.2	1.8
166	103	5/16" NILSPI	0.286	0.286	0.010	1.10	1.10	0.00	0.48	3.9	0.0	0.0	-0.1	-6.4	37.8	0.0	1112.2	2.0
165	374	CTDMO-G P100	0.042	0.042	0.002	1.40	1.40	1.00	0.48	0.7	0.0	0.0	-0.0	-2.8	39.8	0.0	1108.8	2.1
164	103	5/16" NILSPI	0.381	0.381	0.015	1.10	1.10	0.00	0.48	5.0	0.0	0.0	-0.2	-8.5	43.0	0.0	1101.7	2.4
163	374	CTDMO-G P100	0.042	0.042	0.002	1.40	1.40	1.00	0.48	0.7	0.0	0.0	-0.0	-2.8	45.6	0.0	1097.3	2.4
162	103	5/16" NILSPI	0.476	0.476	0.022	1.10	1.10	0.00	0.47	6.1	0.0	0.0	-0.3	-10.7	49.3	0.0	1089.1	2.8
161	374	CTDMO-G P100	0.042	0.042	0.002	1.40	1.40	1.00	0.47	0.7	0.0	0.0	-0.0	-2.8	52.4	0.0	1083.5	2.8
160	103	5/16" NILSPI	0.666	0.667	0.035	1.10	1.10	0.00	0.46	8.2	0.0	0.0	-0.4	-14.9	57.1	0.0	1073.1	3.3
159	374	CTDMO-G P100	0.042	0.042	0.002	1.40	1.40	1.00	0.46	0.6	0.0	0.0	-0.0	-2.8	61.2	0.0	1065.3	3.3
158	103	5/16" NILSPI	0.951	0.953	0.061	1.10	1.10	0.00	0.45	11.0	0.0	0.0	-0.7	-21.3	67.4	0.0	1051.6	4.0
157	374	CTDMO-G P100	0.042	0.042	0.003	1.40	1.40	1.00	0.44	0.6	0.0	0.0	-0.0	-2.8	72.9	0.0	1040.5	4.0
156	103	5/16" NILSPI	1.207	1.210	0.094	1.09	1.10	0.00	0.43	13.0	0.0	0.0	-1.0	-27.1	80.0	0.0	1023.7	4.9
155	13	ind. term	0.005	0.005	0.000	1.49	1.50	1.49	0.43	0.1	0.0	0.0	-0.0	-2.4	86.5	0.0	1009.6	4.9
154	15	coupler ec	0.020	0.020	0.002	1.49	1.50	1.49	0.43	0.3	0.0	0.0	-0.0	-6.0	86.6	0.0	1007.2	4.9
152	479	Release Floa	0.590	0.592	0.051	1.20	1.20	0.90	0.43	6.8	0.0	0.0	-0.6	0.0	86.9	0.0	1001.2	5.0
150	15	coupler ec	0.020	0.020	0.002	1.49	1.50	1.49	0.43	0.3	0.0	0.0	-0.0	-6.0	93.7	0.0	1000.6	5.3
149	13	ind. term	0.005	0.005	0.000	1.49	1.50	1.49	0.43	0.1	0.0	0.0	-0.0	-2.4	94.0	0.0	994.6	5.4
148	256	CF14-1000	0.224	0.225	0.021	0.50	0.50	0.40	0.43	1.1	0.0	0.0	-0.1	13.0	94.0	0.0	992.2	5.4
146	103	5/16" NILSPI	0.095	0.095	0.009	1.09	1.10	0.00	0.42	1.0	0.0	0.0	-0.1	-2.1	95.6	0.0	1004.1	5.5
145	103	5/16" NILSPI	0.095	0.095	0.009	1.09	1.10	0.00	0.42	1.0	0.0	0.0	-0.1	-2.1	96.5	0.0	1001.8	5.5
144	13	ind. term	0.005	0.005	0.000	1.49	1.50	1.49	0.42	0.1	0.0	0.0	-0.0	-2.4	97.1	0.0	1000.6	5.5
143	326	FL62" 1500m	1.887	1.887	1.887	0.50	0.50	0.50	0.42	8.8	0.0	0.0	0.0	750.0	97.1	0.0	998.2	5.6
142	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.42	0.1	0.0	0.0	-0.0	-2.4	106.0	0.0	1748.2	3.5
141	103	5/16" NILSPI	2.329	2.335	0.159	1.09	1.10	0.00	0.41	22.2	0.0	0.0	-1.5	-52.2	117.3	0.0	1719.1	4.3



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #002 – Simulation Parameter, cont.

#	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]
140	375	CTDMO-H P350	0.042	0.042	0.003	1.40	1.40	1.00	0.39	0.5	0.0	0.0	-0.0	-2.8	128.2	0.0	1692.1	4.3
139	103	5/16" NILSPI	2.374	2.382	0.198	1.09	1.10	0.00	0.38	19.6	0.0	0.0	-1.6	-53.3	138.7	0.0	1662.0	5.2
138	375	CTDMO-H P350	0.042	0.042	0.004	1.39	1.40	1.00	0.37	0.4	0.0	0.0	-0.0	-2.8	148.2	0.0	1634.4	5.2
137	103	5/16" NILSPI	2.371	2.382	0.233	1.09	1.10	0.00	0.35	17.0	0.0	0.0	-1.7	-53.3	157.3	0.0	1604.2	6.0
136	103	5/16" NILSPI	2.368	2.382	0.265	1.09	1.10	0.00	0.33	15.0	0.0	0.0	-1.7	-53.3	173.3	0.0	1549.3	6.8
135	375	CTDMO-H P350	0.042	0.042	0.005	1.39	1.40	0.99	0.32	0.3	0.0	0.0	-0.0	-2.8	180.7	0.0	1521.7	6.8
134	103	5/16" NILSPI	0.047	0.048	0.006	1.08	1.10	0.00	0.32	0.3	0.0	0.0	-0.0	-1.1	181.1	0.0	1518.5	6.8
133	13	ind. term	0.005	0.005	0.001	1.49	1.50	1.49	0.32	0.0	0.0	0.0	-0.0	-2.4	181.3	0.0	1517.8	6.8
132	300	Load Cage	0.298	0.300	0.036	1.29	1.30	0.89	0.32	2.2	0.0	0.0	-0.2	-60.0	181.3	0.0	1515.4	6.8
131	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.32	0.1	0.0	0.0	-0.0	-0.7	183.5	0.0	1455.2	7.2
130	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.32	0.1	0.0	0.0	-0.0	-0.7	183.6	0.0	1454.5	7.2
129	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.32	0.1	0.0	0.0	-0.0	-0.7	183.7	0.0	1453.7	7.2
128	181	1/2" MR	0.040	0.040	0.005	1.59	1.60	0.99	0.32	0.3	0.0	0.0	-0.0	-6.1	183.8	0.0	1451.5	7.2
127	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.32	0.1	0.0	0.0	-0.0	-0.7	184.1	0.0	1447.0	7.2
126	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.32	0.1	0.0	0.0	-0.0	-0.7	184.1	0.0	1446.3	7.3
125	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.32	0.1	0.0	0.0	-0.0	-0.7	184.2	0.0	1445.5	7.3
124	274	HR17-4 seria	0.992	1.000	0.126	0.60	0.60	1.05	0.32	3.3	0.0	0.0	-0.4	88.0	184.2	0.0	1444.9	7.3
123	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.32	0.1	0.0	0.0	-0.0	-0.7	187.6	0.0	1532.5	7.0
122	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.32	0.1	0.0	0.0	-0.0	-0.7	187.6	0.0	1531.8	7.0
121	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.32	0.1	0.0	0.0	-0.0	-0.7	187.7	0.0	1531.1	7.0
120	274	HR17-4 seria	0.993	1.000	0.122	0.60	0.60	1.05	0.32	3.3	0.0	0.0	-0.4	88.0	187.8	0.0	1530.4	7.0
119	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.32	0.1	0.0	0.0	-0.0	-0.7	191.1	0.0	1618.0	6.7
118	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.32	0.1	0.0	0.0	-0.0	-0.7	191.1	0.0	1617.3	6.7
117	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.32	0.1	0.0	0.0	-0.0	-0.7	191.2	0.0	1616.6	6.7
116	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.32	0.1	0.0	0.0	-0.0	-0.7	191.3	0.0	1615.9	6.8
115	103	5/16" NILSPI	4.724	4.765	0.619	1.08	1.10	0.00	0.31	25.3	0.0	0.0	-3.3	-106.5	204.4	0.0	1560.5	8.2
113	103	5/16" NILSPI	4.707	4.765	0.738	1.07	1.10	0.00	0.28	20.9	0.0	0.0	-3.2	-106.5	227.3	0.0	1450.7	9.7
112	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.27	0.0	0.0	0.0	-0.0	-0.7	237.5	0.0	1395.8	9.7
111	53	PL 3t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.27	0.1	0.0	0.0	-0.0	-0.7	237.5	0.0	1395.1	9.7
110	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.27	0.0	0.0	0.0	-0.0	-0.7	237.6	0.0	1394.4	9.7
109	274	HR17-4 seria	0.986	1.000	0.168	0.59	0.60	1.04	0.27	2.3	0.0	0.0	-0.4	88.0	237.6	0.0	1393.7	9.7



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #002 – Simulation Parameter, cont.

#	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]
108	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.27	0.0	0.0	0.0	-0.0	-0.7	239.9	0.0	1481.3	9.2
107	53	PL 3t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.27	0.1	0.0	0.0	-0.0	-0.7	239.9	0.0	1480.7	9.2
106	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.27	0.0	0.0	0.0	-0.0	-0.7	240.0	0.0	1479.9	9.2
105	274	HR17-4 seria	0.987	1.000	0.160	0.59	0.60	1.05	0.27	2.3	0.0	0.0	-0.3	88.0	240.0	0.0	1479.3	9.2
104	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.27	0.0	0.0	0.0	-0.0	-0.7	242.3	0.0	1566.9	8.8
103	53	PL 3t 3/4"	0.009	0.010	0.001	1.48	1.50	1.48	0.27	0.1	0.0	0.0	-0.0	-0.7	242.4	0.0	1566.2	8.8
102	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.27	0.0	0.0	0.0	-0.0	-0.7	242.4	0.0	1565.5	8.8
101	103	5/16" NILSPI	4.700	4.765	0.784	1.07	1.10	0.00	0.26	17.8	0.0	0.0	-2.9	-106.5	251.6	0.0	1510.2	10.1
100	103	5/16" NILSPI	4.680	4.765	0.897	1.06	1.10	0.00	0.24	15.7	0.0	0.0	-2.9	-106.5	268.3	0.0	1400.8	11.6
99	32	AS 3t 5/8"	0.006	0.006	0.001	1.47	1.50	1.47	0.24	0.0	0.0	0.0	-0.0	-0.7	276.0	0.0	1346.0	11.6
98	53	PL 3t 3/4"	0.009	0.010	0.002	1.47	1.50	1.47	0.24	0.0	0.0	0.0	-0.0	-0.7	276.0	0.0	1345.3	11.6
97	32	AS 3t 5/8"	0.006	0.006	0.001	1.47	1.50	1.47	0.24	0.0	0.0	0.0	-0.0	-0.7	276.0	0.0	1344.5	11.6
96	274	HR17-4 seria	0.980	1.000	0.201	0.59	0.60	1.04	0.24	1.8	0.0	0.0	-0.3	88.0	276.1	0.0	1343.9	11.6
95	32	AS 3t 5/8"	0.006	0.006	0.001	1.47	1.50	1.47	0.24	0.0	0.0	0.0	-0.0	-0.7	277.9	0.0	1431.6	11.0
94	53	PL 3t 3/4"	0.009	0.010	0.002	1.47	1.50	1.47	0.24	0.0	0.0	0.0	-0.0	-0.7	277.9	0.0	1430.9	11.0
93	32	AS 3t 5/8"	0.006	0.006	0.001	1.47	1.50	1.47	0.24	0.0	0.0	0.0	-0.0	-0.7	277.9	0.0	1430.1	11.0
92	274	HR17-4 seria	0.982	1.000	0.191	0.59	0.60	1.04	0.24	1.8	0.0	0.0	-0.3	88.0	278.0	0.0	1429.5	11.0
91	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.24	0.0	0.0	0.0	-0.0	-0.7	279.8	0.0	1517.2	10.4
90	53	PL 3t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.24	0.0	0.0	0.0	-0.0	-0.7	279.8	0.0	1516.5	10.5
89	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.24	0.0	0.0	0.0	-0.0	-0.7	279.9	0.0	1515.8	10.5
88	103	5/16" NILSPI	4.675	4.765	0.920	1.05	1.10	0.00	0.23	14.2	0.0	0.0	-2.7	-106.5	287.1	0.0	1460.6	11.8
87	103	5/16" NILSPI	4.651	4.765	1.036	1.04	1.10	0.00	0.22	13.0	0.0	0.0	-2.8	-106.5	300.7	0.0	1351.3	13.3
86	32	AS 3t 5/8"	0.006	0.006	0.001	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	307.1	0.0	1296.5	13.3
85	53	PL 3t 3/4"	0.009	0.010	0.002	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	307.1	0.0	1295.9	13.3
84	32	AS 3t 5/8"	0.006	0.006	0.001	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	307.2	0.0	1295.1	13.3
83	103	5/16" NILSPI	0.927	0.953	0.223	1.03	1.10	0.00	0.22	2.5	0.0	0.0	-0.6	-21.3	308.4	0.0	1283.6	13.7
82	32	AS 3t 5/8"	0.006	0.006	0.002	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	309.7	0.0	1272.6	13.7
81	53	PL 3t 3/4"	0.009	0.010	0.002	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	309.7	0.0	1271.9	13.7
80	32	AS 3t 5/8"	0.006	0.006	0.002	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	309.8	0.0	1271.2	13.7
79	103	5/16" NILSPI	0.463	0.476	0.114	1.03	1.10	0.00	0.22	1.2	0.0	0.0	-0.3	-10.7	310.4	0.0	1265.1	13.9
78	32	AS 3t 5/8"	0.006	0.006	0.002	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	311.0	0.0	1259.5	13.9



OOI Southern Ocean Flanking Mooring Model Analysis A and B
designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #002 – Simulation Parameter, cont.

#	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]
77	53	PL 3t 3/4"	0.009	0.010	0.002	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	311.0	0.0	1258.9	13.9
76	32	AS 3t 5/8"	0.006	0.006	0.002	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	311.1	0.0	1258.1	13.9
75	103	5/16" NILSPI	0.139	0.143	0.034	1.03	1.10	0.00	0.22	0.4	0.0	0.0	-0.1	-3.2	311.3	0.0	1255.9	13.9
74	32	AS 3t 5/8"	0.006	0.006	0.002	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	311.5	0.0	1254.2	13.9
73	53	PL 3t 3/4"	0.009	0.010	0.002	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	311.5	0.0	1253.5	14.0
72	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.22	1.9	0.0	0.0	0.0	0.0	311.5	0.0	1252.8	14.0
71	32	AS 3t 5/8"	0.006	0.006	0.002	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	313.5	0.0	1252.8	14.0
70	53	PL 3t 3/4"	0.009	0.010	0.002	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	313.5	0.0	1252.1	14.1
69	32	AS 3t 5/8"	0.006	0.006	0.002	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	313.5	0.0	1251.4	14.1
68	181	1/2" MR	0.097	0.100	0.024	1.55	1.60	0.97	0.22	0.4	0.0	0.0	-0.1	-15.2	313.7	0.0	1244.6	14.2
67	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.22	0.0	0.0	0.0	-0.0	-0.7	313.9	0.0	1235.4	14.3
66	53	PL 3t 3/4"	0.009	0.010	0.002	1.45	1.50	1.45	0.22	0.0	0.0	0.0	-0.0	-0.7	314.0	0.0	1234.7	14.3
65	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.22	0.0	0.0	0.0	-0.0	-0.7	314.0	0.0	1234.0	14.3
64	274	HR17-4 seria	0.969	1.000	0.247	0.58	0.60	1.03	0.22	1.5	0.0	0.0	-0.3	88.0	314.0	0.0	1233.3	14.3
63	32	AS 3t 5/8"	0.006	0.006	0.001	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	315.5	0.0	1321.0	13.4
62	53	PL 3t 3/4"	0.009	0.010	0.002	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	315.6	0.0	1320.3	13.4
61	32	AS 3t 5/8"	0.006	0.006	0.001	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	315.6	0.0	1319.6	13.5
60	274	HR17-4 seria	0.973	1.000	0.233	0.58	0.60	1.03	0.22	1.5	0.0	0.0	-0.3	88.0	315.6	0.0	1318.9	13.5
59	32	AS 3t 5/8"	0.006	0.006	0.001	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	317.2	0.0	1406.6	12.7
58	53	PL 3t 3/4"	0.009	0.010	0.002	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	317.2	0.0	1405.9	12.7
57	32	AS 3t 5/8"	0.006	0.006	0.001	1.46	1.50	1.46	0.22	0.0	0.0	0.0	-0.0	-0.7	317.2	0.0	1405.2	12.7
56	274	HR17-4 seria	0.975	1.000	0.220	0.59	0.60	1.03	0.22	1.5	0.0	0.0	-0.3	88.0	317.3	0.0	1404.5	12.7
55	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	318.8	0.0	1492.2	12.1
54	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	318.8	0.0	1491.6	12.1
53	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	318.8	0.0	1490.8	12.1
52	274	HR17-4 seria	0.978	1.000	0.209	0.59	0.60	1.04	0.22	1.5	0.0	0.0	-0.3	88.0	318.9	0.0	1490.1	12.1
51	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	320.4	0.0	1577.9	11.5
50	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	320.4	0.0	1577.2	11.5
49	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	320.5	0.0	1576.4	11.5
48	274	HR17-4 seria	0.980	1.000	0.199	0.59	0.60	1.04	0.22	1.5	0.0	0.0	-0.3	88.0	320.5	0.0	1575.8	11.5
47	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	322.0	0.0	1663.5	11.0



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #002 – Simulation Parameter, cont.

#	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]
46	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	322.1	0.0	1662.8	11.0
45	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	322.1	0.0	1662.1	11.0
44	274	HR17-4 seria	0.982	1.000	0.190	0.59	0.60	1.04	0.22	1.5	0.0	0.0	-0.3	88.0	322.1	0.0	1661.4	11.0
43	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	323.7	0.0	1749.2	10.5
42	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	323.7	0.0	1748.5	10.5
41	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	323.7	0.0	1747.8	10.5
40	274	HR17-4 seria	0.983	1.000	0.182	0.59	0.60	1.04	0.22	1.5	0.0	0.0	-0.3	88.0	323.7	0.0	1747.1	10.5
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	325.3	0.0	1834.8	10.1
38	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	325.3	0.0	1834.2	10.1
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	325.3	0.0	1833.4	10.1
36	274	HR17-4 seria	0.985	1.000	0.175	0.59	0.60	1.04	0.22	1.5	0.0	0.0	-0.2	88.0	325.4	0.0	1832.8	10.1
35	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	326.9	0.0	1920.5	9.7
34	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	326.9	0.0	1919.9	9.7
33	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	327.0	0.0	1919.1	9.7
32	274	HR17-4 seria	0.986	1.000	0.168	0.59	0.60	1.04	0.22	1.5	0.0	0.0	-0.2	88.0	327.0	0.0	1918.4	9.7
31	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	328.5	0.0	2006.2	9.3
30	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	328.6	0.0	2005.5	9.3
29	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	328.6	0.0	2004.8	9.3
28	181	1/2" MR	0.099	0.100	0.016	1.58	1.60	0.99	0.22	0.4	0.0	0.0	-0.1	-15.2	328.8	0.0	1998.0	9.4
27	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	329.0	0.0	1988.9	9.4
26	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	329.1	0.0	1988.2	9.4
25	33	AS 5t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-1.1	329.1	0.0	1987.5	9.4
24	94	Swivel 5t	0.025	0.025	0.004	1.18	1.20	1.18	0.22	0.1	0.0	0.0	-0.0	-5.3	329.1	0.0	1986.4	9.4
23	33	AS 5t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-1.1	329.2	0.0	1981.0	9.4
22	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	329.2	0.0	1979.9	9.4
21	33	AS 5t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-1.1	329.3	0.0	1979.2	9.4
20	478	Dual Release	0.284	0.288	0.047	1.18	1.20	0.89	0.22	0.9	0.0	0.0	-0.1	-61.0	329.3	0.0	1978.1	9.5
19	480	1/2" dropcha	0.024	0.024	0.004	1.58	1.60	0.99	0.22	0.1	0.0	0.0	-0.0	-6.8	330.2	0.0	1917.0	9.8
18	76	ML 17t 1-1/4	0.025	0.026	0.004	1.48	1.50	1.48	0.22	0.1	0.0	0.0	-0.0	-4.8	330.3	0.0	1910.2	9.8
17	34	AS 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	-1.6	330.4	0.0	1905.3	9.8
16	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	330.5	0.0	1903.7	9.8



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #002 – Simulation Parameter, cont.

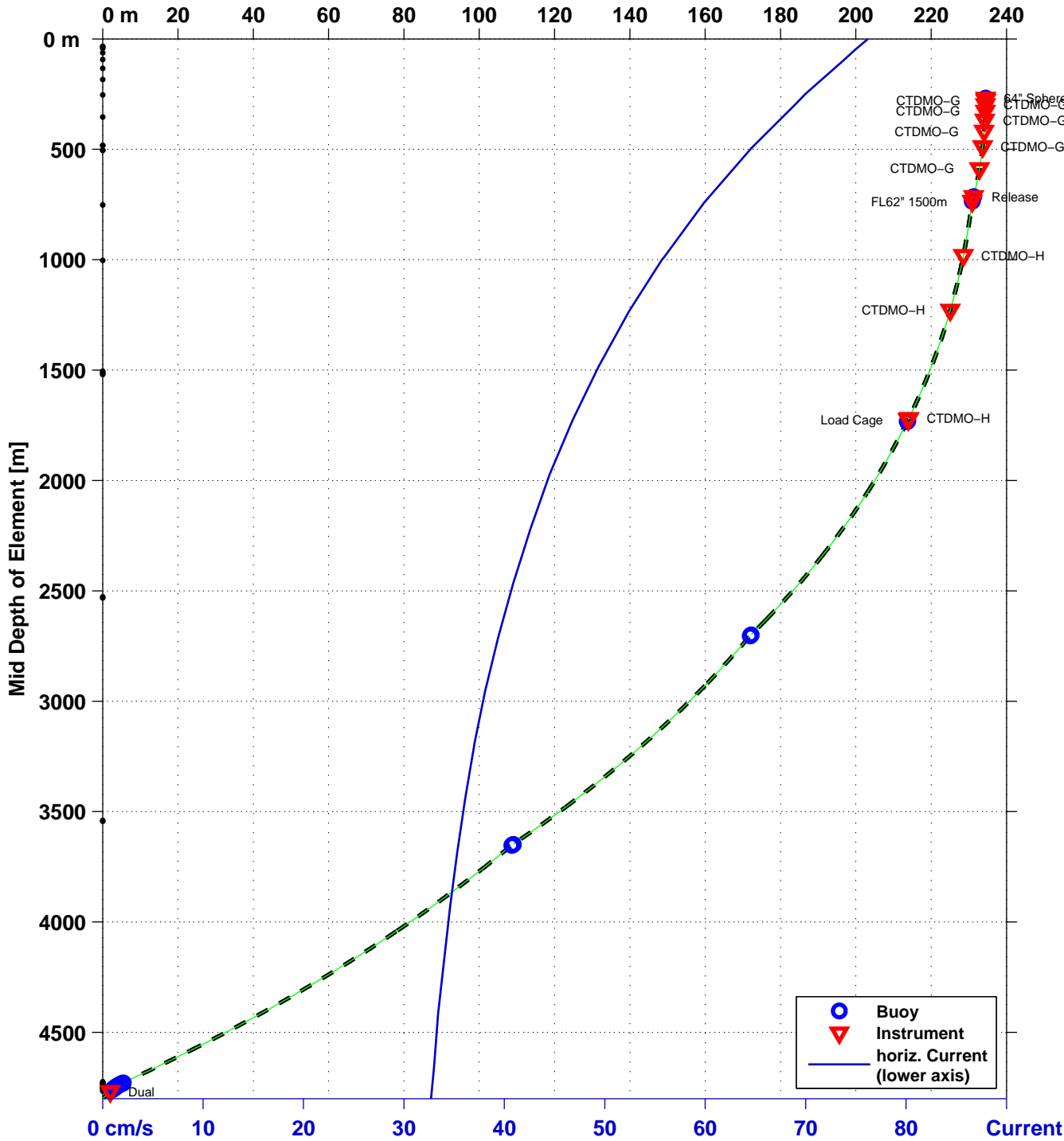
#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
15	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-0.7	330.5	0.0	1902.7	9.9
14	181	1/2" MR	0.099	0.100	0.017	1.58	1.60	0.99	0.22	0.4	0.0	0.0	-0.1	-15.2	330.7	0.0	1895.9	9.9
13	32	AS 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	330.9	0.0	1886.8	9.9
12	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	331.0	0.0	1886.1	10.0
11	34	AS 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	-1.6	331.0	0.0	1885.4	10.0
10	113	Nystron-1"	0.512	0.520	0.090	1.28	1.30	0.02	0.22	1.7	0.0	0.0	-0.3	-2.0	331.8	0.0	1882.7	10.0
9	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.22	1.9	0.0	0.0	0.0	0.0	332.7	0.0	1881.6	10.0
8	34	AS 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	-1.6	334.6	0.0	1881.6	10.1
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	334.7	0.0	1880.0	10.1
6	34	AS 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	-1.6	334.7	0.0	1879.0	10.1
5	183	3/4" MR	0.148	0.150	0.027	1.57	1.60	0.98	0.22	0.6	0.0	0.0	-0.1	-33.0	335.0	0.0	1864.1	10.3
4	33	AS 5t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.22	0.0	0.0	0.0	-0.0	-1.1	335.4	0.0	1844.2	10.3
3	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	335.4	0.0	1843.2	10.3
2	34	AS 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	-1.6	335.4	0.0	1842.4	10.3
1	522	double MACE	1.200	1.200	0.000	1.20	1.20	1.20	0.22	3.7	0.0	0.0	0.0	-2742.1	335.5	0.0	1840.9	0.0



OOI Southern Ocean Flanking Mooring Model Analysis A and B designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
Source: 21-Jan-2015 09:24:11, ...\imp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg				
Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)				
Event #003 – Subduction [m]: max. 234m, Top at 268m				



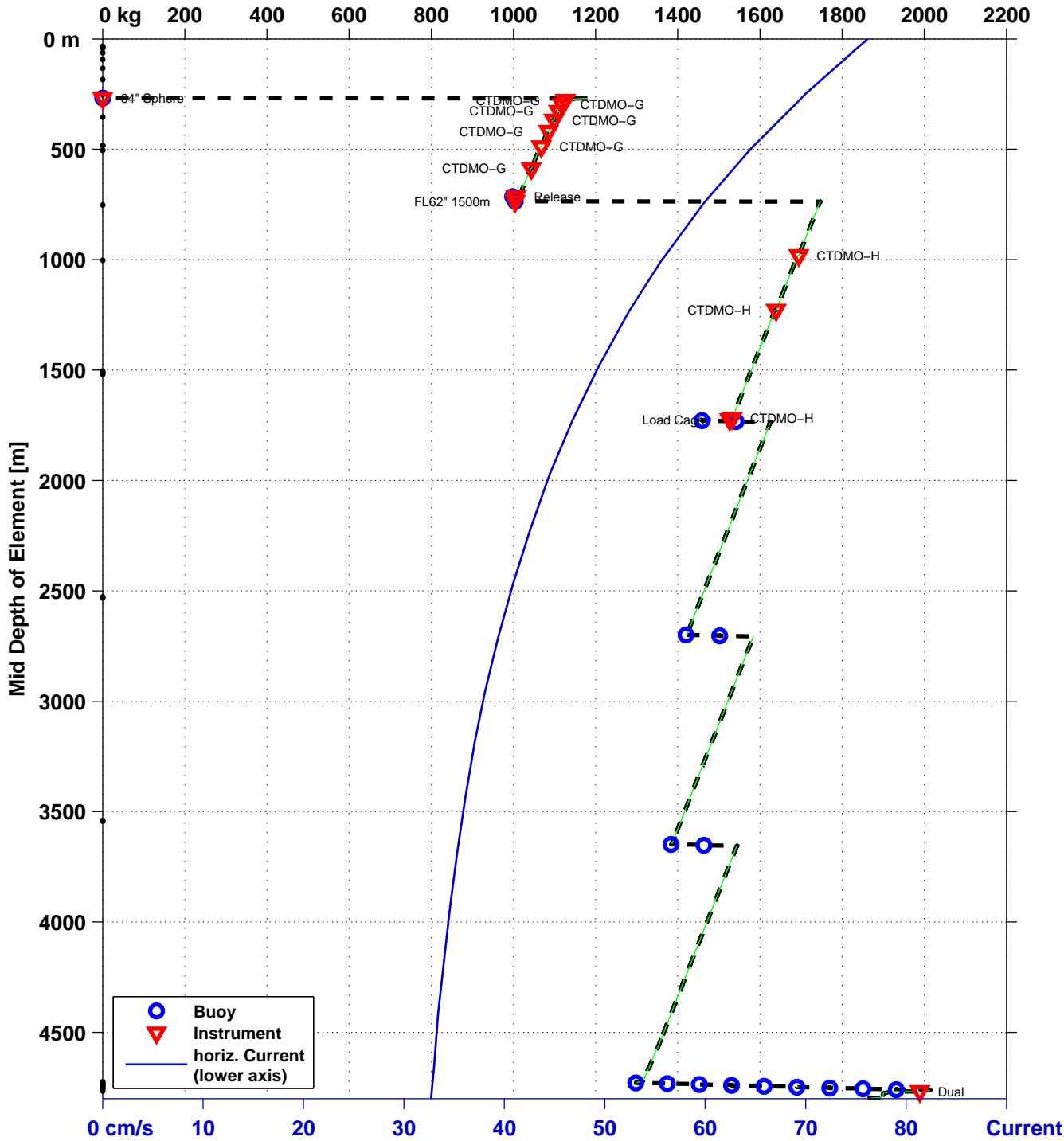
Event #003: Vert / Horiz anchor load: 1742 kg / 659 kg
Vert / Horiz anchor safety : 125 % / 120 %,
Safe Wet MACE anchor weight: 2532 kg, (max. 500 kg or Horiz. safety)
Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



OOI Southern Ocean Flanking Mooring Model Analysis A and B designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
Source: 21-Jan-2015 09:24:11, ...\imp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg				
Author: 21-Jan-2015 09:24:21, megaalien@(PCWIN64)				
Event #003 – Tension [kg]				



Event #003: Vert / Horiz anchor load : 1742 kg / 659 kg
Vert / Horiz anchor safety : 125 % / 120 %,
Safe Wet MACE anchor weight : 2532 kg, (max. 500 kg or Horiz. safety)
Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



OOI Southern Ocean Flanking Mooring Model Analysis A and B
designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg
Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #003 – Simulation Result

#	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]	
174	306	64" Sphere	100	2.3	1180.0	2.087	0.50	0.70	26.4	0.0	0.0	0.00	0.00	267.1	234.5	1385.0	1.3
173	17	U-Joint	0.3	-16.3	0.090	1.50	0.70	3.5	1180.3	7.4	0.00	0.00	269.5	234.5	1385.0	1.3	
172	141	1/2" EM chain	5.0	-35.0	1.000	1.30	0.70	32.8	1164.0	11.6	0.00	0.00	270.1	234.5	1385.0	2.8	
171	13	ind. term	0.1	-2.4	0.005	1.50	0.69	0.2	1129.1	7.1	0.00	0.00	274.7	234.5	1384.8	3.2	
170	103	5/16" NILSPIN	3.0	-0.6	0.029	1.10	0.69	0.8	1126.7	24.2	0.01	0.25	275.2	234.5	1384.8	3.2	
169	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.69	1.5	1126.1	11.3	0.00	0.00	277.7	234.5	1384.6	3.2	
168	103	5/16" NILSPIN	20.0	-4.3	0.191	1.10	0.69	5.2	1123.3	24.1	0.05	0.25	278.2	234.5	1384.6	3.6	
167	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.69	1.5	1119.1	11.2	0.00	0.00	297.7	234.5	1383.4	3.6	
166	103	5/16" NILSPIN	30.1	-6.4	0.286	1.10	0.69	7.7	1116.3	24.0	0.07	0.25	298.2	234.5	1383.4	4.1	
165	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.68	1.4	1109.9	11.1	0.00	0.00	327.7	234.4	1381.3	4.1	
164	103	5/16" NILSPIN	40.1	-8.5	0.381	1.10	0.68	10.0	1107.1	23.8	0.10	0.24	328.2	234.4	1381.3	4.7	
163	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.67	1.4	1098.6	11.0	0.00	0.00	367.7	234.3	1378.2	4.8	
162	103	5/16" NILSPIN	50.1	-10.6	0.476	1.10	0.67	12.1	1095.8	23.6	0.12	0.24	368.2	234.3	1378.2	5.5	
161	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.66	1.4	1085.2	10.9	0.00	0.00	417.6	234.1	1373.7	5.5	
160	103	5/16" NILSPIN	70.2	-14.9	0.667	1.10	0.66	16.2	1082.4	23.3	0.17	0.24	418.1	234.1	1373.7	6.6	
159	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.65	1.3	1067.6	10.7	0.00	0.00	487.4	233.7	1366.3	6.6	
158	103	5/16" NILSPIN	100.2	-21.3	0.953	1.10	0.64	21.8	1064.9	22.9	0.23	0.23	487.9	233.7	1366.3	8.0	
157	374	CTDMO-G P1000m	0.0	-2.8	0.042	1.40	0.63	1.2	1043.8	10.4	0.00	0.00	586.8	232.8	1353.5	8.0	
156	103	5/16" NILSPIN	127.3	-27.1	1.210	1.10	0.62	25.5	1041.0	22.4	0.29	0.23	587.3	232.8	1353.5	9.7	
155	13	ind. term	0.1	-2.4	0.005	1.50	0.60	0.1	1014.3	6.3	0.00	0.00	712.6	231.3	1333.7	9.8	
154	15	coupler ec	0.2	-6.0	0.020	1.50	0.60	0.6	1012.0	6.3	0.00	0.00	712.8	231.3	1333.7	9.8	
152	479	Release Float	1.0	0.0	0.592	1.20	0.60	13.6	1006.1	10.1	0.00	0.00	713.3	231.3	1333.7	9.9	
150	15	coupler ec	0.2	-6.0	0.020	1.50	0.60	0.6	1006.3	6.3	0.00	0.00	713.9	231.3	1333.5	10.7	
149	13	ind. term	0.1	-2.4	0.005	1.50	0.60	0.1	1000.4	6.3	0.00	0.00	714.1	231.3	1333.5	10.8	
148	256	CFL4-1000	0.0	13.0	0.225	0.50	0.60	2.2	998.1	16.6	0.00	0.00	714.1	231.3	1333.5	10.8	
146	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.60	1.9	1010.9	21.7	0.02	0.22	714.6	231.3	1333.5	10.9	
145	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.60	1.9	1008.8	21.7	0.02	0.22	724.5	231.1	1331.6	11.0	
144	13	ind. term	0.1	-2.4	0.005	1.50	0.60	0.1	1006.7	6.3	0.00	0.00	733.9	230.9	1329.7	11.1	
143	326	FL62" 1500m ADC	2.8	750.0	1.887	0.50	0.60	17.8	1004.4	10.0	0.00	0.00	735.3	230.9	1329.7	11.1	
142	13	ind. term	0.1	-2.4	0.005	1.50	0.60	0.1	1748.4	10.9	0.00	0.00	736.7	230.9	1329.1	6.9	
141	103	5/16" NILSPIN	245.9	-52.2	2.335	1.10	0.58	44.1	1746.0	37.5	0.93	0.38	737.3	230.9	1329.1	8.7	



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #003 – Simulation Result, cont.

#	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]
140	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.56	1.0	1694.4	16.9	0.00	0.00	980.4	228.6	1295.7	8.7
139	103	5/16" NILSPIN	250.9	-53.3	2.382	1.10	0.54	38.8	1691.6	36.4	0.92	0.37	980.9	228.6	1295.7	10.4
138	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.53	0.8	1639.2	16.4	0.00	0.00	1227.9	225.1	1254.1	10.4
137	103	5/16" NILSPIN	250.9	-53.3	2.382	1.10	0.51	33.7	1636.5	35.2	0.89	0.36	1228.4	225.1	1254.1	12.0
136	103	5/16" NILSPIN	250.9	-53.3	2.382	1.10	0.48	29.6	1584.4	34.1	0.86	0.35	1474.5	220.3	1205.3	13.5
135	375	CTDMO-H P3500m	0.0	-2.8	0.042	1.40	0.47	0.7	1532.6	15.3	0.00	0.00	1718.6	214.1	1149.8	13.6
134	103	5/16" NILSPIN	5.0	-1.1	0.048	1.10	0.47	0.6	1529.9	32.9	0.02	0.34	1719.1	214.1	1149.8	13.6
133	13	ind. term	0.1	-2.4	0.005	1.50	0.47	0.1	1528.8	9.6	0.00	0.00	1723.5	213.9	1148.6	13.6
132	300	Load Cage	1.5	-60.0	0.300	1.30	0.47	4.5	1526.5	15.3	0.00	0.00	1724.3	213.9	1148.6	13.7
131	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.47	0.1	1468.5	12.2	0.00	0.00	1725.1	213.9	1148.2	14.4
130	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.47	0.2	1467.8	12.2	0.00	0.00	1725.1	213.9	1148.2	14.4
129	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.47	0.1	1467.1	12.2	0.00	0.00	1725.2	213.9	1148.2	14.4
128	181	1/2" MR	2.0	-6.1	0.040	1.60	0.47	0.7	1466.5	14.7	0.00	0.00	1725.8	213.9	1148.2	14.5
127	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.47	0.1	1460.6	12.2	0.00	0.00	1727.2	213.8	1147.7	14.5
126	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.47	0.2	1460.0	12.2	0.00	0.00	1727.3	213.8	1147.7	14.5
125	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.47	0.1	1459.3	12.2	0.00	0.00	1727.4	213.8	1147.6	14.5
124	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.47	6.8	1458.6	14.6	0.00	0.00	1729.4	213.8	1147.6	14.6
123	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.47	0.1	1544.2	12.9	0.00	0.00	1731.3	213.7	1146.6	14.0
122	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.47	0.2	1543.5	12.9	0.00	0.00	1731.4	213.7	1146.6	14.0
121	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.47	0.1	1542.8	12.9	0.00	0.00	1731.5	213.7	1146.6	14.0
120	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.47	6.8	1542.2	15.4	0.00	0.00	1733.5	213.7	1146.6	14.0
119	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.47	0.1	1627.9	13.6	0.00	0.00	1735.5	213.5	1145.6	13.5
118	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.47	0.2	1627.2	13.6	0.00	0.00	1735.5	213.5	1145.6	13.5
117	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.47	0.1	1626.5	13.6	0.00	0.00	1735.6	213.5	1145.5	13.5
116	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.47	0.1	1625.9	13.5	0.00	0.00	1735.7	213.5	1145.5	13.6
115	103	5/16" NILSPIN	501.7	-106.5	4.765	1.10	0.45	49.2	1625.3	34.9	1.74	0.35	1736.2	213.5	1145.5	16.4
113	103	5/16" NILSPIN	501.6	-106.5	4.765	1.10	0.41	39.8	1522.8	32.7	1.63	0.33	2220.9	196.4	1015.8	19.3
112	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.39	0.1	1422.0	11.9	0.00	0.00	2697.8	172.2	862.1	19.3
111	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.39	0.1	1421.4	11.8	0.00	0.00	2697.9	172.2	862.0	19.3
110	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.39	0.1	1420.7	11.8	0.00	0.00	2698.0	172.2	862.0	19.3
109	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.39	4.7	1420.1	14.2	0.00	0.00	2700.0	172.2	862.0	19.3



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #003 – Simulation Result, cont.

#	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]
108	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.39	0.1	1503.7	12.5	0.00	0.00	2701.8	172.0	860.7	18.4
107	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.39	0.1	1503.1	12.5	0.00	0.00	2701.9	172.0	860.6	18.4
106	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.39	0.1	1502.4	12.5	0.00	0.00	2702.0	172.0	860.6	18.4
105	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.39	4.7	1501.8	15.0	0.00	0.00	2704.0	172.0	860.6	18.5
104	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.39	0.1	1585.7	13.2	0.00	0.00	2705.9	171.8	859.3	17.6
103	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.39	0.1	1585.1	13.2	0.00	0.00	2705.9	171.8	859.3	17.6
102	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.39	0.1	1584.4	13.2	0.00	0.00	2706.0	171.8	859.3	17.6
101	103	5/16" NILSPIN	501.7	-106.5	4.765	1.10	0.38	34.0	1583.8	34.0	1.70	0.34	2706.6	171.8	859.2	20.3
100	103	5/16" NILSPIN	501.6	-106.5	4.765	1.10	0.36	28.9	1483.7	31.9	1.59	0.32	3181.0	144.5	696.3	23.1
99	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.35	0.1	1385.5	11.5	0.00	0.00	3646.7	109.0	511.1	23.1
98	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.35	0.1	1384.9	11.5	0.00	0.00	3646.7	109.0	511.1	23.1
97	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.35	0.1	1384.2	11.5	0.00	0.00	3646.8	109.0	511.1	23.1
96	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.35	3.7	1383.6	13.8	0.00	0.00	3648.8	109.0	511.0	23.1
95	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.35	0.1	1465.3	12.2	0.00	0.00	3650.6	108.7	509.5	21.9
94	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.35	0.1	1464.7	12.2	0.00	0.00	3650.6	108.7	509.4	21.9
93	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.35	0.1	1464.0	12.2	0.00	0.00	3650.7	108.7	509.4	22.0
92	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.35	3.7	1463.4	14.6	0.00	0.00	3652.8	108.7	509.4	22.0
91	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.35	0.1	1545.6	12.9	0.00	0.00	3654.5	108.4	507.9	20.9
90	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.35	0.1	1545.0	12.9	0.00	0.00	3654.6	108.4	507.8	20.9
89	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.35	0.1	1544.3	12.9	0.00	0.00	3654.7	108.4	507.8	20.9
88	103	5/16" NILSPIN	501.7	-106.5	4.765	1.10	0.35	26.3	1543.7	33.2	1.66	0.33	3655.2	108.4	507.8	23.5
87	103	5/16" NILSPIN	501.5	-106.5	4.765	1.10	0.34	23.1	1445.9	31.1	1.55	0.31	4119.6	71.1	318.1	26.4
86	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1350.2	11.3	0.00	0.00	4573.8	24.2	106.5	26.4
85	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1349.7	11.2	0.00	0.00	4573.8	24.2	106.5	26.4
84	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1349.0	11.2	0.00	0.00	4573.9	24.2	106.4	26.5
83	103	5/16" NILSPIN	100.3	-21.3	0.953	1.10	0.33	4.3	1348.4	29.0	0.30	0.30	4574.4	24.2	106.4	27.1
82	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1329.6	11.1	0.00	0.00	4663.5	13.5	61.2	27.1
81	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1329.0	11.1	0.00	0.00	4663.6	13.5	61.2	27.1
80	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1328.4	11.1	0.00	0.00	4663.7	13.5	61.2	27.1
79	103	5/16" NILSPIN	50.1	-10.7	0.476	1.10	0.33	2.1	1327.8	28.5	0.15	0.29	4664.2	13.4	61.1	27.4
78	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1318.5	11.0	0.00	0.00	4708.3	7.9	38.1	27.4



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg
 Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #003 – Simulation Result, cont.

#	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]
77	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1317.9	11.0	0.00	0.00	4708.4	7.9	38.1	27.5
76	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1317.2	11.0	0.00	0.00	4708.5	7.9	38.1	27.5
75	103	5/16" NILSPIN	15.0	-3.2	0.143	1.10	0.33	0.6	1316.7	28.3	0.04	0.29	4709.0	7.8	38.0	27.6
74	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1313.9	10.9	0.00	0.00	4721.9	6.1	31.1	27.6
73	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1313.3	10.9	0.00	0.00	4722.0	6.1	31.0	27.6
72	491	Parachute	0.0	0.0	1.500	0.50	0.33	4.3	1312.7	13.1	0.00	0.00	4722.0	6.1	31.0	27.6
71	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1314.7	11.0	0.00	0.00	4722.0	6.1	31.0	27.8
70	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1314.1	11.0	0.00	0.00	4722.1	6.1	31.0	27.8
69	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1313.4	10.9	0.00	0.00	4722.2	6.1	30.9	27.8
68	181	1/2" MR	5.0	-15.2	0.100	1.60	0.33	0.7	1312.9	13.1	0.00	0.00	4722.7	6.1	30.9	28.1
67	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1299.5	10.8	0.00	0.00	4726.7	5.5	28.5	28.2
66	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1298.9	10.8	0.00	0.00	4726.7	5.5	28.5	28.2
65	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1298.3	10.8	0.00	0.00	4726.8	5.5	28.4	28.2
64	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.33	3.0	1297.7	13.0	0.00	0.00	4728.8	5.5	28.4	28.2
63	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1376.3	11.5	0.00	0.00	4730.4	5.0	26.5	26.6
62	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1375.7	11.5	0.00	0.00	4730.5	5.0	26.5	26.6
61	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1375.1	11.5	0.00	0.00	4730.6	5.0	26.4	26.7
60	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.33	3.0	1374.5	13.7	0.00	0.00	4732.6	5.0	26.4	26.7
59	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1454.0	12.1	0.00	0.00	4734.2	4.6	24.6	25.2
58	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1453.4	12.1	0.00	0.00	4734.3	4.6	24.6	25.3
57	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1452.8	12.1	0.00	0.00	4734.4	4.5	24.5	25.3
56	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.33	3.1	1452.2	14.5	0.00	0.00	4736.4	4.5	24.5	25.3
55	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1532.5	12.8	0.00	0.00	4738.0	4.1	22.8	24.0
54	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1531.9	12.8	0.00	0.00	4738.1	4.1	22.8	24.0
53	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1531.3	12.8	0.00	0.00	4738.2	4.1	22.7	24.0
52	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.33	3.1	1530.7	15.3	0.00	0.00	4740.2	4.1	22.7	24.0
51	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1611.8	13.4	0.00	0.00	4741.9	3.8	21.1	22.9
50	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1611.2	13.4	0.00	0.00	4742.0	3.8	21.1	22.9
49	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1610.5	13.4	0.00	0.00	4742.1	3.8	21.0	22.9
48	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.33	3.2	1609.9	16.1	0.00	0.00	4744.1	3.8	21.0	22.9
47	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1691.6	14.1	0.00	0.00	4745.8	3.4	19.4	21.9



OOI Southern Ocean Flanking Mooring Model Analysis A and B
designed for 4800m Depth



By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg
Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #003 – Simulation Result, cont.

#	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]
46	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1691.0	14.1	0.00	0.00	4745.9	3.4	19.4	21.9
45	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1690.3	14.1	0.00	0.00	4746.0	3.4	19.4	21.9
44	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.33	3.2	1689.7	16.9	0.00	0.00	4748.0	3.4	19.3	21.9
43	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1771.9	14.8	0.00	0.00	4749.8	3.1	17.8	20.9
42	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1771.3	14.8	0.00	0.00	4749.8	3.1	17.8	21.0
41	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1770.6	14.8	0.00	0.00	4749.9	3.1	17.8	21.0
40	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.33	3.2	1770.0	17.7	0.00	0.00	4752.0	3.1	17.8	21.0
39	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1852.6	15.4	0.00	0.00	4753.7	2.9	16.3	20.1
38	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1852.0	15.4	0.00	0.00	4753.8	2.9	16.3	20.1
37	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1851.3	15.4	0.00	0.00	4753.9	2.8	16.3	20.1
36	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.33	3.3	1850.7	18.5	0.00	0.00	4755.9	2.8	16.2	20.1
35	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1933.8	16.1	0.00	0.00	4757.7	2.6	14.9	19.3
34	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1933.2	16.1	0.00	0.00	4757.8	2.6	14.8	19.3
33	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1932.5	16.1	0.00	0.00	4757.9	2.6	14.8	19.4
32	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.33	3.3	1931.9	19.3	0.00	0.00	4759.9	2.6	14.8	19.4
31	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	2015.3	16.8	0.00	0.00	4761.7	2.4	13.5	18.6
30	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	2014.7	16.8	0.00	0.00	4761.8	2.4	13.4	18.6
29	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	2014.0	16.8	0.00	0.00	4761.9	2.4	13.4	18.6
28	181	1/2" MR	5.0	-15.2	0.100	1.60	0.33	0.8	2013.4	20.1	0.00	0.00	4762.4	2.3	13.4	18.8
27	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1999.0	16.7	0.00	0.00	4766.7	2.1	11.8	18.8
26	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1998.4	16.7	0.00	0.00	4766.8	2.1	11.8	18.8
25	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.33	0.1	1997.7	11.1	0.00	0.00	4766.8	2.1	11.7	18.8
24	94	Swivel 5t	0.2	-5.3	0.025	1.20	0.33	0.2	1996.7	20.0	0.00	0.00	4767.0	2.1	11.7	18.8
23	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.33	0.1	1991.6	11.1	0.00	0.00	4767.1	2.1	11.6	18.9
22	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1990.6	16.6	0.00	0.00	4767.2	2.1	11.6	18.9
21	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.33	0.1	1989.9	11.1	0.00	0.00	4767.3	2.0	11.6	18.9
20	478	Dual Release	1.0	-61.0	0.288	1.20	0.33	1.9	1988.9	19.9	0.00	0.00	4767.9	2.0	11.5	18.9
19	480	1/2" dropchain	0.6	-6.8	0.024	1.60	0.33	0.2	1931.5	12.1	0.00	0.00	4768.6	2.0	11.2	19.6
18	76	ML 17t 1-1/4"	0.2	-4.8	0.026	1.50	0.33	0.2	1925.1	4.4	0.00	0.00	4769.0	2.0	11.0	19.7
17	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.33	0.1	1920.5	8.0	0.00	0.00	4769.2	1.9	10.9	19.7
16	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.33	0.1	1919.1	8.0	0.00	0.00	4769.3	1.9	10.9	19.7



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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Source: 21-Jan-2015 09:24:11, ...\\imp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #003 – Simulation Result, cont.

#	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]
15	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1918.1	16.0	0.00	0.00	4769.4	1.9	10.8	19.7
14	181	1/2" MR	5.0	-15.2	0.100	1.60	0.33	0.8	1917.5	19.2	0.00	0.00	4769.9	1.9	10.8	19.9
13	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.33	0.1	1903.2	15.9	0.00	0.00	4774.1	1.6	9.1	19.9
12	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1902.6	15.9	0.00	0.00	4774.2	1.6	9.1	19.9
11	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.33	0.1	1901.9	7.9	0.00	0.00	4774.3	1.6	9.1	20.0
10	113	Nystron-1"	20.7	-2.0	0.520	1.30	0.33	3.4	1900.5	11.3	0.68	3.39	4774.9	1.6	9.0	20.1
9	491	Parachute	0.0	0.0	1.500	0.50	0.33	4.3	1898.7	19.0	0.00	0.00	4793.8	0.4	1.9	20.1
8	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.33	0.1	1900.2	7.9	0.00	0.00	4793.8	0.4	1.9	20.2
7	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.33	0.1	1898.7	7.9	0.00	0.00	4793.9	0.3	1.9	20.2
6	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.33	0.1	1897.8	7.9	0.00	0.00	4794.0	0.3	1.9	20.3
5	183	3/4" MR	5.0	-33.1	0.150	1.60	0.33	1.2	1896.3	7.9	0.00	0.00	4794.6	0.3	1.8	20.6
4	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.33	0.1	1865.4	10.4	0.00	0.00	4798.8	0.0	0.1	20.7
3	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.33	0.1	1864.4	15.5	0.00	0.00	4798.9	0.0	0.1	20.7
2	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.33	0.1	1863.7	7.8	0.00	0.00	4799.0	0.0	0.0	20.7
1	522	double MACE Anch	1.0	-2742.1	1.200	1.20	0.33	8.2	1862.3	31.0	0.00	0.00	4800.0	0.0	0.0	0.0

Max. 37.5% Static Tension at:

141	103	5/16" NILSPIN	245.9	-52.2	2.335	1.10	0.58	44.1	1746.0	37.5	0.93	0.38	737.3	230.9	1329.1	8.7
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Vert/Horiz Anchor Load : 1742 kg / 659 kg
 Wet MACE Anchor Weight : 2742 kg
 Safe MACE Anchor Weight : 2532 kg



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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #003 – Simulation Parameter

#	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]
174	306	64" Sphere	2.087	2.087	2.087	0.50	0.50	0.50	0.70	26.4	0.0	0.0	0.0	1180.0	0.0	0.0	0.0	1.3
173	17	U-Joint	0.090	0.090	0.002	1.50	1.50	1.50	0.70	3.5	0.0	0.0	-0.1	-16.3	26.4	0.0	1180.0	1.3
172	141	1/2" EM chai	0.999	1.000	0.038	1.30	1.30	1.00	0.70	32.8	0.0	0.0	-1.2	-35.0	43.1	0.0	1149.2	2.8
171	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.69	0.2	0.0	0.0	-0.0	-2.4	62.7	0.0	1127.4	3.2
170	103	5/16" NILSPI	0.029	0.029	0.002	1.10	1.10	0.00	0.69	0.8	0.0	0.0	-0.0	-0.6	63.2	0.0	1124.8	3.2
169	374	CTDMO-G P100	0.042	0.042	0.002	1.40	1.40	1.00	0.69	1.5	0.0	0.0	-0.1	-2.8	63.7	0.0	1124.3	3.2
168	103	5/16" NILSPI	0.190	0.191	0.012	1.10	1.10	0.00	0.69	5.2	0.0	0.0	-0.3	-4.3	67.7	0.0	1119.2	3.6
167	374	CTDMO-G P100	0.042	0.042	0.003	1.40	1.40	1.00	0.69	1.5	0.0	0.0	-0.1	-2.8	70.4	0.0	1116.8	3.6
166	103	5/16" NILSPI	0.285	0.286	0.019	1.09	1.10	0.00	0.69	7.7	0.0	0.0	-0.5	-6.4	75.6	0.0	1110.6	4.1
165	374	CTDMO-G P100	0.042	0.042	0.003	1.40	1.40	1.00	0.68	1.4	0.0	0.0	-0.1	-2.8	79.6	0.0	1107.0	4.1
164	103	5/16" NILSPI	0.380	0.381	0.030	1.09	1.10	0.00	0.68	10.0	0.0	0.0	-0.8	-8.5	85.9	0.0	1099.6	4.7
163	374	CTDMO-G P100	0.042	0.042	0.003	1.40	1.40	1.00	0.67	1.4	0.0	0.0	-0.1	-2.8	91.0	0.0	1094.8	4.8
162	103	5/16" NILSPI	0.475	0.476	0.043	1.09	1.10	0.00	0.67	12.1	0.0	0.0	-1.1	-10.7	98.4	0.0	1086.2	5.5
161	374	CTDMO-G P100	0.042	0.042	0.004	1.39	1.40	1.00	0.66	1.4	0.0	0.0	-0.1	-2.8	104.6	0.0	1080.2	5.5
160	103	5/16" NILSPI	0.663	0.667	0.071	1.09	1.10	0.00	0.66	16.2	0.0	0.0	-1.7	-14.9	114.0	0.0	1069.1	6.6
159	374	CTDMO-G P100	0.042	0.042	0.005	1.39	1.40	0.99	0.65	1.3	0.0	0.0	-0.1	-2.8	122.1	0.0	1060.6	6.6
158	103	5/16" NILSPI	0.945	0.953	0.121	1.08	1.10	0.00	0.64	21.8	0.0	0.0	-2.8	-21.3	134.3	0.0	1045.8	8.0
157	374	CTDMO-G P100	0.042	0.042	0.006	1.39	1.40	0.99	0.63	1.2	0.0	0.0	-0.2	-2.8	145.2	0.0	1033.6	8.0
156	103	5/16" NILSPI	1.196	1.210	0.188	1.07	1.10	0.00	0.62	25.5	0.0	0.0	-4.0	-27.1	159.3	0.0	1015.3	9.7
155	13	ind. term	0.005	0.005	0.001	1.48	1.50	1.48	0.60	0.1	0.0	0.0	-0.0	-2.4	172.0	0.0	999.6	9.8
154	15	coupler ec	0.020	0.020	0.003	1.48	1.50	1.48	0.60	0.6	0.0	0.0	-0.1	-6.0	172.1	0.0	997.2	9.8
152	479	Release Floa	0.583	0.592	0.102	1.18	1.20	0.89	0.60	13.6	0.0	0.0	-2.2	0.0	172.7	0.0	991.1	9.9
150	15	coupler ec	0.020	0.020	0.004	1.47	1.50	1.47	0.60	0.6	0.0	0.0	-0.1	-6.0	186.3	0.0	988.9	10.7
149	13	ind. term	0.005	0.005	0.001	1.47	1.50	1.47	0.60	0.1	0.0	0.0	-0.0	-2.4	186.9	0.0	982.8	10.8
148	256	CF14-1000	0.221	0.225	0.042	0.49	0.50	0.39	0.60	2.2	0.0	0.0	-0.4	13.0	187.1	0.0	980.4	10.8
146	103	5/16" NILSPI	0.094	0.095	0.018	1.06	1.10	0.00	0.60	1.9	0.0	0.0	-0.4	-2.1	190.1	0.0	991.9	10.9
145	103	5/16" NILSPI	0.094	0.095	0.018	1.06	1.10	0.00	0.60	1.9	0.0	0.0	-0.4	-2.1	192.0	0.0	989.4	11.0
144	13	ind. term	0.005	0.005	0.001	1.47	1.50	1.47	0.60	0.1	0.0	0.0	-0.0	-2.4	193.1	0.0	988.0	11.1
143	326	FL62" 1500m	1.887	1.887	1.887	0.50	0.50	0.50	0.60	17.8	0.0	0.0	0.0	750.0	193.2	0.0	985.6	11.1
142	13	ind. term	0.005	0.005	0.001	1.49	1.50	1.49	0.60	0.1	0.0	0.0	-0.0	-2.4	211.1	0.0	1735.6	6.9
141	103	5/16" NILSPI	2.313	2.335	0.317	1.08	1.10	0.00	0.58	44.1	0.0	0.0	-6.0	-52.2	233.7	0.0	1704.3	8.7



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #003 – Simulation Parameter, cont.

#	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]
140	375	CTDMO-H P350	0.042	0.042	0.006	1.38	1.40	0.99	0.56	1.0	0.0	0.0	-0.1	-2.8	255.3	0.0	1675.0	8.7
139	103	5/16" NILSPI	2.349	2.382	0.395	1.07	1.10	0.00	0.54	38.8	0.0	0.0	-6.4	-53.3	276.0	0.0	1642.4	10.4
138	375	CTDMO-H P350	0.042	0.042	0.008	1.38	1.40	0.98	0.53	0.8	0.0	0.0	-0.1	-2.8	295.0	0.0	1612.4	10.4
137	103	5/16" NILSPI	2.337	2.382	0.463	1.05	1.10	0.00	0.51	33.7	0.0	0.0	-6.5	-53.3	313.0	0.0	1579.7	12.0
136	103	5/16" NILSPI	2.323	2.382	0.527	1.04	1.10	0.00	0.48	29.6	0.0	0.0	-6.5	-53.3	344.6	0.0	1519.9	13.5
135	375	CTDMO-H P350	0.041	0.042	0.010	1.36	1.40	0.97	0.47	0.7	0.0	0.0	-0.1	-2.8	359.2	0.0	1489.9	13.6
134	103	5/16" NILSPI	0.046	0.048	0.011	1.03	1.10	0.00	0.47	0.6	0.0	0.0	-0.1	-1.1	360.1	0.0	1486.5	13.6
133	13	ind. term	0.005	0.005	0.001	1.46	1.50	1.46	0.47	0.1	0.0	0.0	-0.0	-2.4	360.4	0.0	1485.8	13.6
132	300	Load Cage	0.292	0.300	0.071	1.26	1.30	0.87	0.47	4.5	0.0	0.0	-1.0	-60.0	360.5	0.0	1483.3	13.7
131	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.47	0.1	0.0	0.0	-0.0	-0.7	365.0	0.0	1422.4	14.4
130	53	PL 3t 3/4"	0.009	0.010	0.002	1.45	1.50	1.45	0.47	0.2	0.0	0.0	-0.0	-0.7	365.1	0.0	1421.7	14.4
129	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.47	0.1	0.0	0.0	-0.0	-0.7	365.3	0.0	1420.9	14.4
128	181	1/2" MR	0.039	0.040	0.010	1.55	1.60	0.97	0.47	0.7	0.0	0.0	-0.2	-6.1	365.6	0.0	1418.7	14.5
127	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.47	0.1	0.0	0.0	-0.0	-0.7	366.1	0.0	1414.0	14.5
126	53	PL 3t 3/4"	0.009	0.010	0.002	1.45	1.50	1.45	0.47	0.2	0.0	0.0	-0.0	-0.7	366.2	0.0	1413.3	14.5
125	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.47	0.1	0.0	0.0	-0.0	-0.7	366.4	0.0	1412.5	14.5
124	274	HR17-4 seria	0.968	1.000	0.251	0.58	0.60	1.03	0.47	6.8	0.0	0.0	-1.5	88.0	366.5	0.0	1411.8	14.6
123	32	AS 3t 5/8"	0.006	0.006	0.002	1.46	1.50	1.46	0.47	0.1	0.0	0.0	-0.0	-0.7	373.3	0.0	1498.4	14.0
122	53	PL 3t 3/4"	0.009	0.010	0.002	1.46	1.50	1.46	0.47	0.2	0.0	0.0	-0.0	-0.7	373.4	0.0	1497.7	14.0
121	32	AS 3t 5/8"	0.006	0.006	0.002	1.46	1.50	1.46	0.47	0.1	0.0	0.0	-0.0	-0.7	373.6	0.0	1496.9	14.0
120	274	HR17-4 seria	0.970	1.000	0.242	0.58	0.60	1.03	0.47	6.8	0.0	0.0	-1.4	88.0	373.7	0.0	1496.2	14.0
119	32	AS 3t 5/8"	0.006	0.006	0.001	1.46	1.50	1.46	0.47	0.1	0.0	0.0	-0.0	-0.7	380.5	0.0	1582.8	13.5
118	53	PL 3t 3/4"	0.009	0.010	0.002	1.46	1.50	1.46	0.47	0.2	0.0	0.0	-0.0	-0.7	380.7	0.0	1582.1	13.5
117	32	AS 3t 5/8"	0.006	0.006	0.001	1.46	1.50	1.46	0.47	0.1	0.0	0.0	-0.0	-0.7	380.8	0.0	1581.3	13.5
116	32	AS 3t 5/8"	0.006	0.006	0.001	1.46	1.50	1.46	0.47	0.1	0.0	0.0	-0.0	-0.7	380.9	0.0	1580.6	13.6
115	103	5/16" NILSPI	4.602	4.765	1.232	1.02	1.10	0.00	0.45	49.2	0.0	0.0	-12.7	-106.5	406.5	0.0	1520.4	16.4
113	103	5/16" NILSPI	4.535	4.765	1.460	0.99	1.10	0.00	0.41	39.8	0.0	0.0	-12.2	-106.5	450.8	0.0	1401.5	19.3
112	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.39	0.1	0.0	0.0	-0.0	-0.7	470.1	0.0	1342.1	19.3
111	53	PL 3t 3/4"	0.009	0.010	0.003	1.42	1.50	1.42	0.39	0.1	0.0	0.0	-0.0	-0.7	470.2	0.0	1341.4	19.3
110	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.39	0.1	0.0	0.0	-0.0	-0.7	470.3	0.0	1340.6	19.3
109	274	HR17-4 seria	0.944	1.000	0.331	0.57	0.60	1.00	0.39	4.7	0.0	0.0	-1.3	88.0	470.4	0.0	1340.0	19.3



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #003 – Simulation Parameter, cont.

#	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]
108	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.39	0.1	0.0	0.0	-0.0	-0.7	475.1	0.0	1426.7	18.4
107	53	PL 3t 3/4"	0.009	0.010	0.003	1.42	1.50	1.42	0.39	0.1	0.0	0.0	-0.0	-0.7	475.2	0.0	1426.0	18.4
106	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.39	0.1	0.0	0.0	-0.0	-0.7	475.3	0.0	1425.2	18.4
105	274	HR17-4 seria	0.949	1.000	0.317	0.57	0.60	1.01	0.39	4.7	0.0	0.0	-1.2	88.0	475.4	0.0	1424.6	18.5
104	32	AS 3t 5/8"	0.006	0.006	0.002	1.43	1.50	1.43	0.39	0.1	0.0	0.0	-0.0	-0.7	480.1	0.0	1511.3	17.6
103	53	PL 3t 3/4"	0.009	0.010	0.003	1.43	1.50	1.43	0.39	0.1	0.0	0.0	-0.0	-0.7	480.2	0.0	1510.6	17.6
102	32	AS 3t 5/8"	0.006	0.006	0.002	1.43	1.50	1.43	0.39	0.1	0.0	0.0	-0.0	-0.7	480.3	0.0	1509.9	17.6
101	103	5/16" NILSPI	4.506	4.765	1.548	0.97	1.10	0.00	0.38	34.0	0.0	0.0	-11.0	-106.5	497.8	0.0	1450.5	20.3
100	103	5/16" NILSPI	4.428	4.765	1.759	0.94	1.10	0.00	0.36	28.9	0.0	0.0	-10.7	-106.5	529.1	0.0	1333.2	23.1
99	32	AS 3t 5/8"	0.006	0.006	0.003	1.38	1.50	1.38	0.35	0.1	0.0	0.0	-0.0	-0.7	543.3	0.0	1274.5	23.1
98	53	PL 3t 3/4"	0.009	0.010	0.004	1.38	1.50	1.38	0.35	0.1	0.0	0.0	-0.0	-0.7	543.3	0.0	1273.8	23.1
97	32	AS 3t 5/8"	0.006	0.006	0.003	1.38	1.50	1.38	0.35	0.1	0.0	0.0	-0.0	-0.7	543.4	0.0	1273.1	23.1
96	274	HR17-4 seria	0.920	1.000	0.393	0.55	0.60	0.97	0.35	3.7	0.0	0.0	-1.1	88.0	543.5	0.0	1272.4	23.1
95	32	AS 3t 5/8"	0.006	0.006	0.002	1.39	1.50	1.39	0.35	0.1	0.0	0.0	-0.0	-0.7	547.2	0.0	1359.3	21.9
94	53	PL 3t 3/4"	0.009	0.010	0.004	1.39	1.50	1.39	0.35	0.1	0.0	0.0	-0.0	-0.7	547.2	0.0	1358.6	21.9
93	32	AS 3t 5/8"	0.006	0.006	0.002	1.39	1.50	1.39	0.35	0.1	0.0	0.0	-0.0	-0.7	547.3	0.0	1357.8	22.0
92	274	HR17-4 seria	0.927	1.000	0.374	0.56	0.60	0.98	0.35	3.7	0.0	0.0	-1.1	88.0	547.4	0.0	1357.1	22.0
91	32	AS 3t 5/8"	0.006	0.006	0.002	1.40	1.50	1.40	0.35	0.1	0.0	0.0	-0.0	-0.7	551.1	0.0	1444.0	20.9
90	53	PL 3t 3/4"	0.009	0.010	0.003	1.40	1.50	1.40	0.35	0.1	0.0	0.0	-0.0	-0.7	551.2	0.0	1443.3	20.9
89	32	AS 3t 5/8"	0.006	0.006	0.002	1.40	1.50	1.40	0.35	0.1	0.0	0.0	-0.0	-0.7	551.3	0.0	1442.6	20.9
88	103	5/16" NILSPI	4.411	4.765	1.802	0.93	1.10	0.00	0.35	26.3	0.0	0.0	-9.9	-106.5	564.8	0.0	1383.8	23.5
87	103	5/16" NILSPI	4.320	4.765	2.010	0.89	1.10	0.00	0.34	23.1	0.0	0.0	-9.7	-106.5	589.4	0.0	1267.4	26.4
86	32	AS 3t 5/8"	0.006	0.006	0.003	1.34	1.50	1.34	0.33	0.1	0.0	0.0	-0.0	-0.7	600.8	0.0	1209.2	26.4
85	53	PL 3t 3/4"	0.009	0.010	0.004	1.34	1.50	1.34	0.33	0.1	0.0	0.0	-0.0	-0.7	600.8	0.0	1208.6	26.4
84	32	AS 3t 5/8"	0.006	0.006	0.003	1.34	1.50	1.34	0.33	0.1	0.0	0.0	-0.0	-0.7	600.9	0.0	1207.8	26.5
83	103	5/16" NILSPI	0.851	0.953	0.429	0.86	1.10	0.00	0.33	4.3	0.0	0.0	-1.9	-21.3	603.1	0.0	1195.6	27.1
82	32	AS 3t 5/8"	0.006	0.006	0.003	1.34	1.50	1.34	0.33	0.1	0.0	0.0	-0.0	-0.7	605.2	0.0	1183.9	27.1
81	53	PL 3t 3/4"	0.009	0.010	0.004	1.34	1.50	1.34	0.33	0.1	0.0	0.0	-0.0	-0.7	605.3	0.0	1183.2	27.1
80	32	AS 3t 5/8"	0.006	0.006	0.003	1.34	1.50	1.34	0.33	0.1	0.0	0.0	-0.0	-0.7	605.3	0.0	1182.5	27.1
79	103	5/16" NILSPI	0.424	0.476	0.218	0.85	1.10	0.00	0.33	2.1	0.0	0.0	-1.0	-10.7	606.4	0.0	1176.1	27.4
78	32	AS 3t 5/8"	0.006	0.006	0.003	1.33	1.50	1.33	0.33	0.1	0.0	0.0	-0.0	-0.7	607.5	0.0	1170.2	27.4



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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #003 – Simulation Parameter, cont.

#	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]
77	53	PL 3t 3/4"	0.009	0.010	0.004	1.33	1.50	1.33	0.33	0.1	0.0	0.0	-0.0	-0.7	607.5	0.0	1169.5	27.5
76	32	AS 3t 5/8"	0.006	0.006	0.003	1.33	1.50	1.33	0.33	0.1	0.0	0.0	-0.0	-0.7	607.6	0.0	1168.7	27.5
75	103	5/16" NILSPI	0.127	0.143	0.066	0.84	1.10	0.00	0.33	0.6	0.0	0.0	-0.3	-3.2	608.0	0.0	1166.4	27.6
74	32	AS 3t 5/8"	0.006	0.006	0.003	1.33	1.50	1.33	0.33	0.1	0.0	0.0	-0.0	-0.7	608.3	0.0	1164.6	27.6
73	53	PL 3t 3/4"	0.009	0.010	0.004	1.33	1.50	1.33	0.33	0.1	0.0	0.0	-0.0	-0.7	608.3	0.0	1163.9	27.6
72	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.33	4.3	0.0	0.0	0.0	0.0	608.4	0.0	1163.1	27.6
71	32	AS 3t 5/8"	0.006	0.006	0.003	1.33	1.50	1.33	0.33	0.1	0.0	0.0	-0.0	-0.7	612.7	0.0	1163.1	27.8
70	53	PL 3t 3/4"	0.008	0.010	0.004	1.33	1.50	1.33	0.33	0.1	0.0	0.0	-0.0	-0.7	612.8	0.0	1162.5	27.8
69	32	AS 3t 5/8"	0.006	0.006	0.003	1.33	1.50	1.33	0.33	0.1	0.0	0.0	-0.0	-0.7	612.9	0.0	1161.7	27.8
68	181	1/2" MR	0.088	0.100	0.047	1.41	1.60	0.88	0.33	0.7	0.0	0.0	-0.3	-15.2	613.2	0.0	1154.8	28.1
67	32	AS 3t 5/8"	0.006	0.006	0.003	1.32	1.50	1.32	0.33	0.1	0.0	0.0	-0.0	-0.7	613.7	0.0	1145.5	28.2
66	53	PL 3t 3/4"	0.008	0.010	0.005	1.32	1.50	1.32	0.33	0.1	0.0	0.0	-0.0	-0.7	613.7	0.0	1144.8	28.2
65	32	AS 3t 5/8"	0.006	0.006	0.003	1.32	1.50	1.32	0.33	0.1	0.0	0.0	-0.0	-0.7	613.8	0.0	1144.0	28.2
64	274	HR17-4 seria	0.881	1.000	0.473	0.53	0.60	0.93	0.33	3.0	0.0	0.0	-1.0	88.0	613.8	0.0	1143.4	28.2
63	32	AS 3t 5/8"	0.006	0.006	0.003	1.34	1.50	1.34	0.33	0.1	0.0	0.0	-0.0	-0.7	616.8	0.0	1230.3	26.6
62	53	PL 3t 3/4"	0.009	0.010	0.004	1.34	1.50	1.34	0.33	0.1	0.0	0.0	-0.0	-0.7	616.9	0.0	1229.7	26.6
61	32	AS 3t 5/8"	0.006	0.006	0.003	1.34	1.50	1.34	0.33	0.1	0.0	0.0	-0.0	-0.7	616.9	0.0	1228.9	26.7
60	274	HR17-4 seria	0.894	1.000	0.449	0.54	0.60	0.95	0.33	3.0	0.0	0.0	-1.0	88.0	617.0	0.0	1228.2	26.7
59	32	AS 3t 5/8"	0.006	0.006	0.003	1.36	1.50	1.36	0.33	0.1	0.0	0.0	-0.0	-0.7	620.0	0.0	1315.2	25.2
58	53	PL 3t 3/4"	0.009	0.010	0.004	1.36	1.50	1.36	0.33	0.1	0.0	0.0	-0.0	-0.7	620.1	0.0	1314.5	25.3
57	32	AS 3t 5/8"	0.006	0.006	0.003	1.36	1.50	1.36	0.33	0.1	0.0	0.0	-0.0	-0.7	620.2	0.0	1313.7	25.3
56	274	HR17-4 seria	0.904	1.000	0.427	0.54	0.60	0.96	0.33	3.1	0.0	0.0	-1.0	88.0	620.2	0.0	1313.1	25.3
55	32	AS 3t 5/8"	0.006	0.006	0.003	1.37	1.50	1.37	0.33	0.1	0.0	0.0	-0.0	-0.7	623.3	0.0	1400.1	24.0
54	53	PL 3t 3/4"	0.009	0.010	0.004	1.37	1.50	1.37	0.33	0.1	0.0	0.0	-0.0	-0.7	623.4	0.0	1399.4	24.0
53	32	AS 3t 5/8"	0.006	0.006	0.003	1.37	1.50	1.37	0.33	0.1	0.0	0.0	-0.0	-0.7	623.4	0.0	1398.6	24.0
52	274	HR17-4 seria	0.913	1.000	0.407	0.55	0.60	0.97	0.33	3.1	0.0	0.0	-1.0	88.0	623.5	0.0	1397.9	24.0
51	32	AS 3t 5/8"	0.006	0.006	0.002	1.38	1.50	1.38	0.33	0.1	0.0	0.0	-0.0	-0.7	626.6	0.0	1485.0	22.9
50	53	PL 3t 3/4"	0.009	0.010	0.004	1.38	1.50	1.38	0.33	0.1	0.0	0.0	-0.0	-0.7	626.7	0.0	1484.3	22.9
49	32	AS 3t 5/8"	0.006	0.006	0.002	1.38	1.50	1.38	0.33	0.1	0.0	0.0	-0.0	-0.7	626.8	0.0	1483.5	22.9
48	274	HR17-4 seria	0.921	1.000	0.389	0.55	0.60	0.98	0.33	3.2	0.0	0.0	-1.0	88.0	626.8	0.0	1482.8	22.9
47	32	AS 3t 5/8"	0.006	0.006	0.002	1.39	1.50	1.39	0.33	0.1	0.0	0.0	-0.0	-0.7	630.0	0.0	1569.9	21.9



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...limp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #003 – Simulation Parameter, cont.

#	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]
46	53	PL 3t 3/4"	0.009	0.010	0.004	1.39	1.50	1.39	0.33	0.1	0.0	0.0	-0.0	-0.7	630.1	0.0	1569.2	21.9
45	32	AS 3t 5/8"	0.006	0.006	0.002	1.39	1.50	1.39	0.33	0.1	0.0	0.0	-0.0	-0.7	630.1	0.0	1568.4	21.9
44	274	HR17-4 seria	0.928	1.000	0.373	0.56	0.60	0.98	0.33	3.2	0.0	0.0	-1.0	88.0	630.2	0.0	1567.7	21.9
43	32	AS 3t 5/8"	0.006	0.006	0.002	1.40	1.50	1.40	0.33	0.1	0.0	0.0	-0.0	-0.7	633.4	0.0	1654.8	20.9
42	53	PL 3t 3/4"	0.009	0.010	0.003	1.40	1.50	1.40	0.33	0.1	0.0	0.0	-0.0	-0.7	633.5	0.0	1654.1	21.0
41	32	AS 3t 5/8"	0.006	0.006	0.002	1.40	1.50	1.40	0.33	0.1	0.0	0.0	-0.0	-0.7	633.6	0.0	1653.4	21.0
40	274	HR17-4 seria	0.934	1.000	0.358	0.56	0.60	0.99	0.33	3.2	0.0	0.0	-0.9	88.0	633.6	0.0	1652.7	21.0
39	32	AS 3t 5/8"	0.006	0.006	0.002	1.41	1.50	1.41	0.33	0.1	0.0	0.0	-0.0	-0.7	636.8	0.0	1739.7	20.1
38	53	PL 3t 3/4"	0.009	0.010	0.003	1.41	1.50	1.41	0.33	0.1	0.0	0.0	-0.0	-0.7	636.9	0.0	1739.1	20.1
37	32	AS 3t 5/8"	0.006	0.006	0.002	1.41	1.50	1.41	0.33	0.1	0.0	0.0	-0.0	-0.7	637.0	0.0	1738.3	20.1
36	274	HR17-4 seria	0.939	1.000	0.344	0.56	0.60	1.00	0.33	3.3	0.0	0.0	-0.9	88.0	637.0	0.0	1737.6	20.1
35	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	640.3	0.0	1824.7	19.3
34	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	640.4	0.0	1824.0	19.3
33	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	640.4	0.0	1823.3	19.4
32	274	HR17-4 seria	0.943	1.000	0.332	0.57	0.60	1.00	0.33	3.3	0.0	0.0	-0.9	88.0	640.5	0.0	1822.6	19.4
31	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	643.8	0.0	1909.7	18.6
30	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	643.8	0.0	1909.0	18.6
29	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	643.9	0.0	1908.3	18.6
28	181	1/2" MR	0.095	0.100	0.032	1.52	1.60	0.95	0.33	0.8	0.0	0.0	-0.3	-15.2	644.3	0.0	1901.4	18.8
27	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	644.8	0.0	1892.1	18.8
26	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	644.9	0.0	1891.5	18.8
25	33	AS 5t 3/4"	0.009	0.010	0.003	1.42	1.50	1.42	0.33	0.1	0.0	0.0	-0.0	-1.1	644.9	0.0	1890.7	18.8
24	94	Swivel 5t	0.024	0.025	0.008	1.14	1.20	1.14	0.33	0.2	0.0	0.0	-0.0	-5.3	645.0	0.0	1889.6	18.8
23	33	AS 5t 3/4"	0.009	0.010	0.003	1.42	1.50	1.42	0.33	0.1	0.0	0.0	-0.0	-1.1	645.2	0.0	1884.2	18.9
22	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	645.3	0.0	1883.1	18.9
21	33	AS 5t 3/4"	0.009	0.010	0.003	1.42	1.50	1.42	0.33	0.1	0.0	0.0	-0.0	-1.1	645.4	0.0	1882.4	18.9
20	478	Dual Release	0.272	0.288	0.093	1.14	1.20	0.85	0.33	1.9	0.0	0.0	-0.5	-61.0	645.5	0.0	1881.3	18.9
19	480	1/2" dropcha	0.023	0.024	0.008	1.51	1.60	0.94	0.33	0.2	0.0	0.0	-0.1	-6.8	647.4	0.0	1819.7	19.6
18	76	ML 17t 1-1/4	0.024	0.026	0.009	1.41	1.50	1.41	0.33	0.2	0.0	0.0	-0.1	-4.8	647.6	0.0	1812.9	19.7
17	34	AS 6t 7/8"	0.012	0.012	0.004	1.41	1.50	1.41	0.33	0.1	0.0	0.0	-0.0	-1.6	647.8	0.0	1808.0	19.7
16	64	EL 6t 7/8"	0.011	0.012	0.004	1.41	1.50	1.41	0.33	0.1	0.0	0.0	-0.0	-1.0	647.9	0.0	1806.4	19.7



OOI Southern Ocean Flanking Mooring Model Analysis A and B
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By: P. Chua	21-Jan-2015	DCN: 3201-00011	REV: B	REF.DES. GS03FLMA
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Source: 21-Jan-2015 09:24:11, ...\imp\Paul's m-files\OOI\Global_South\gs2014FLMAB.cfg

Author: 21-Jan-2015 09:24:22, megaalien@(PCWIN64)

Event #003 – Simulation Parameter, cont.

#	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]
15	32	AS 3t 5/8"	0.006	0.006	0.002	1.41	1.50	1.41	0.33	0.1	0.0	0.0	-0.0	-0.7	648.0	0.0	1805.3	19.7
14	181	1/2" MR	0.094	0.100	0.034	1.51	1.60	0.94	0.33	0.8	0.0	0.0	-0.3	-15.2	648.4	0.0	1798.5	19.9
13	32	AS 3t 5/8"	0.006	0.006	0.002	1.41	1.50	1.41	0.33	0.1	0.0	0.0	-0.0	-0.7	648.9	0.0	1789.2	19.9
12	53	PL 3t 3/4"	0.009	0.010	0.003	1.41	1.50	1.41	0.33	0.1	0.0	0.0	-0.0	-0.7	648.9	0.0	1788.5	19.9
11	34	AS 6t 7/8"	0.012	0.012	0.004	1.41	1.50	1.41	0.33	0.1	0.0	0.0	-0.0	-1.6	649.0	0.0	1787.7	20.0
10	113	Nystron-1"	0.489	0.520	0.178	1.22	1.30	0.02	0.33	3.4	0.0	0.0	-1.2	-2.0	650.7	0.0	1784.7	20.1
9	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.33	4.3	0.0	0.0	0.0	0.0	652.5	0.0	1783.0	20.1
8	34	AS 6t 7/8"	0.012	0.012	0.004	1.41	1.50	1.41	0.33	0.1	0.0	0.0	-0.0	-1.6	656.8	0.0	1783.0	20.2
7	64	EL 6t 7/8"	0.011	0.012	0.004	1.41	1.50	1.41	0.33	0.1	0.0	0.0	-0.0	-1.0	656.9	0.0	1781.4	20.2
6	34	AS 6t 7/8"	0.012	0.012	0.004	1.41	1.50	1.41	0.33	0.1	0.0	0.0	-0.0	-1.6	657.0	0.0	1780.4	20.3
5	183	3/4" MR	0.141	0.150	0.052	1.50	1.60	0.94	0.33	1.2	0.0	0.0	-0.4	-33.0	657.6	0.0	1765.4	20.6
4	33	AS 5t 3/4"	0.009	0.010	0.003	1.40	1.50	1.40	0.33	0.1	0.0	0.0	-0.0	-1.1	658.4	0.0	1745.3	20.7
3	53	PL 3t 3/4"	0.009	0.010	0.003	1.40	1.50	1.40	0.33	0.1	0.0	0.0	-0.0	-0.7	658.4	0.0	1744.2	20.7
2	34	AS 6t 7/8"	0.012	0.012	0.004	1.40	1.50	1.40	0.33	0.1	0.0	0.0	-0.0	-1.6	658.5	0.0	1743.5	20.7
1	522	double MACE	1.200	1.200	0.000	1.20	1.20	1.20	0.33	8.2	0.0	0.0	0.0	-2742.1	658.6	0.0	1741.9	0.0