



OOI Global PAPA Hybrid Profiler Mooring
 designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, ../projects/ooi/current/gp02hyperm/gp02hyperm_bak20140124.cfg

Author: 27-Jan-2014 11:31:48, mlankhorst@sendlab01(GLNX86)

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Revision History

3203-00010_OOI_Global_PAPA_Hybrid_Profiler_Mooring_2014-01-27_RevB

Rev#	Date	Author	Description
A	31-Oct-2012	C. Begler	Initial Release, ECR# 1303-00860
B	27-Jan-2014	M. Lankhorst	Update to show as deployed, ECR# 1303-01225



OOI Global PAPA Hybrid Profiler Mooring

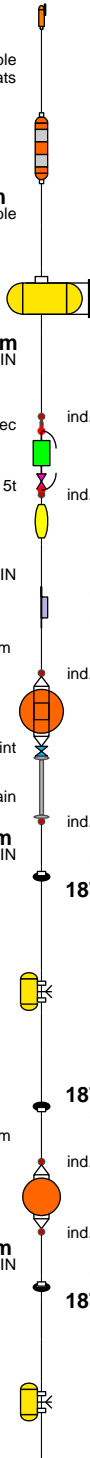
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depth	component (incl. stretch)	instruments	rope # & Length	Distance from Upper / Lower rope end
135 m	GSPP Comm. Float	GPS RF Freewave Dual Low Speed Sat Controller Sable GPS # _____ SBE52 # _____	#1 23m Data Cable w/ Floats	
160 m	GSPP Instrument Float	SBE43F # _____ PCO2W # _____ AQD_DW # _____ ATM # _____ Controller # _____	#2 13.5m Data Cable	Profiling cable length adjustable
177 m	GSPP Winch Float	Sable GPS # _____ Controller # _____	#3 100.5m 3/16" NILSPIN	upper SW ground Mech. Float wire length adjustable
279 m	Release Float		coupler ec ind. term	bypass
281 m	CF14-1000		EM Swivel 5t ind. term	bypass, must break upon release
290 m	CTDMO		#4 20m 5/16" NILSPIN	13 kg Buoyancy 10.0 10.0
300 m	64" Sphere 1000m	Sable GPS # _____ XEOS XMB # _____ XEOS XMF # _____	#4 bottom ind. term	bypass 1230kg Net Buoyancy incl. 0kg payload bypass
320 m	Wire Profiler Stop		U-Joint	coilcord conductor
	WFP	MMP # _____ SBE52 # _____ FSI3D # _____ FLBB # _____ Optode # _____	#5 5m 1/2" EM chain ind. term	bypass
2185 m	Wire Profiler Stop		#6 1880m 5/16" NILSPIN	10.0 1870.0
2195 m	51" Syntactic Sphere 6000m		#6 bottom ind. term	bypass 380kg Net Buoyancy
2206 m	Wire Profiler Stop		#7 1880m 5/16" NILSPIN	10.0 1870.0
	WFP	MMP # _____ SBE52 # _____ FSI3D # _____ FLBB # _____ Optode # _____		





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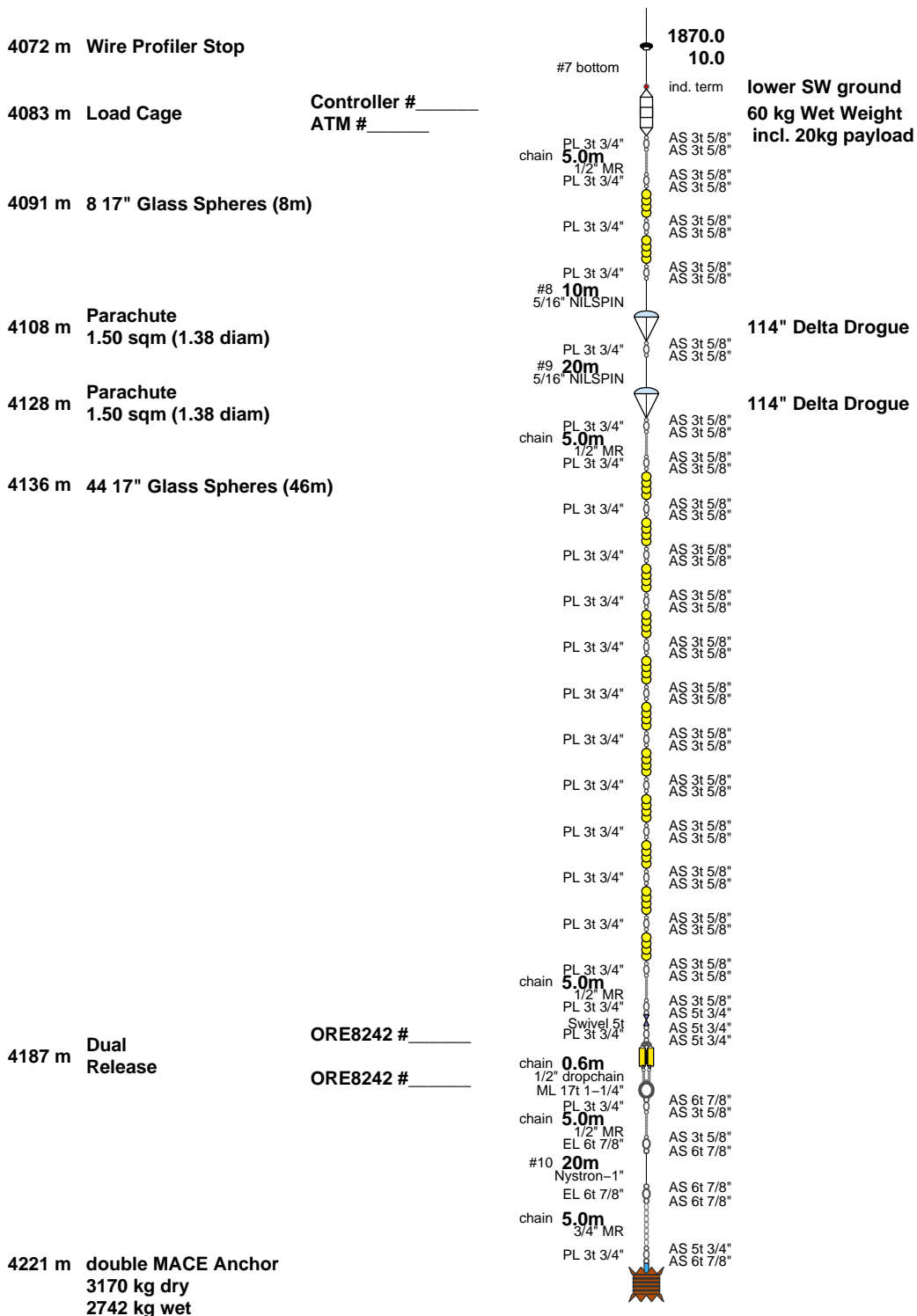


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depth (incl. stretch)	component	instruments	rope # & Length	Distance from Upper / Lower rope end
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Element List

Code	Count	Label	Weight in air	/	water

Components					

13	7	Inductive Termination	21.0 kg		16.8 kg
15	1	Special Coupler Eye-Clevis	8.0 kg		6.0 kg
17	1	45deg Universal Joint	25.0 kg		16.3 kg
32	39	5/8" Bolt Type Anchor Shackle (AS) 3.2t	29.6 kg		25.8 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	22	3/4" Pear Link (PL) 2.7t	18.9 kg		16.3 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
98	1	EM Swivel 5t	10.0 kg		8.0 kg
215	1	51" Syntactic Sphere 6000m	800.0 kg		-380.0 kg
256	1	Cable Float CF14 1000m	25.0 kg		-13.0 kg
274	13	4 17" Glass Sphere 204HR on 4m chain	1248.0 kg		-1144.0 kg
300	1	Load Cage w/ Controller, ACOMM	50.0 kg		60.0 kg
306	1	64" Syntactic Sphere 1000m	1100.0 kg		-1230.0 kg
337	1	MicroCAT IM37 + pressure	3.8 kg		2.8 kg
338	2	Wire Profiler Stop	10.0 kg		1.0 kg
339	2	Wire Profiler Stop	10.0 kg		1.0 kg
340	2	Wire Following Profiler	140.0 kg		-0.0 kg
410	1	GSPP Mechanism Float	1880.0 kg		-440.0 kg
415	1	GSPP Instrument Float	230.0 kg		-100.0 kg
416	1	GSPP Communications Float	20.0 kg		-6.0 kg
478	1	Dual Acoustic Release	77.0 kg		61.0 kg
479	1	Acoustic Release in Float	121.0 kg		-0.0 kg



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Element List, cont.

Code	Count	Label	Weight in air	/	water
480	1	DropChain 1/2"-4ft	7.8 kg		6.8 kg
491	2	Parachute	NaN kg		-0.0 kg

Components weight : 5863.1 kg -3066.9 kg

Ropes

101	100m	3/16" 3x19 Jac. NILSPIN wire	11.1 kg		7.8 kg
103	3810m	5/16" 3x19 Jac. NILSPIN wire	1188.7 kg		811.5 kg
113	20m	Samson Nystron 1"	10.1 kg		2.0 kg
124	14m	Profiling Data Cable 6.5mm	1.4 kg		0.2 kg
130	23m	Data Cable w/ Floats	6.9 kg		-2.3 kg
141	5m	EM chain 1/2", 2.7t	90.0 kg		35.0 kg
181	20m	Mooring (MR) chain 1/2", 2.7t	70.0 kg		60.8 kg
183	5m	Mooring (MR) chain 3/4", 6.0t	38.0 kg		33.1 kg

Ropes weight : 1416.1 kg 948.0 kg

Summary

		Components	5863.1 kg		-3066.9 kg
		Ropes	1416.1 kg		948.0 kg
522	1	double MACE Anchor	3170.0 kg		2742.1 kg

Mooring total weight : 10449.3 kg 623.1 kg



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Rope List

#	Code	Length	Label	Weight in air	/	water
1	130	23m	Data Cable w/ Floats	6.9 kg		-2.3 kg
2	124	14m	Profiling Data Cable 6.5mm	1.4 kg		0.2 kg
3x	101	100m	3/16" 3x19 Jac. NILSPIN wire	11.1 kg		7.8 kg
4x	103	20m	5/16" 3x19 Jac. NILSPIN wire	6.2 kg		4.3 kg
5	141	5m	EM chain 1/2", 2.7t	90.0 kg		35.0 kg
6x	103	1880m	5/16" 3x19 Jac. NILSPIN wire	586.6 kg		400.4 kg
7x	103	1880m	5/16" 3x19 Jac. NILSPIN wire	586.6 kg		400.4 kg
	181	5m	Mooring (MR) chain 1/2", 2.7t	17.5 kg		15.2 kg
8	103	10m	5/16" 3x19 Jac. NILSPIN wire	3.1 kg		2.1 kg
9	103	20m	5/16" 3x19 Jac. NILSPIN wire	6.2 kg		4.3 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
10	113	20m	Samson Nystroon 1"	10.1 kg		2.0 kg
	183	5m	Mooring (MR) chain 3/4", 6.0t	38.0 kg		33.1 kg

Symmetric Marker: 5

#	Length	Type	Position of Markers [m]
4x	20m	5/16" NILSPIN:	10
6x	1880m	5/16" NILSPIN:	10, 1870
7x	1880m	5/16" NILSPIN:	10, 1870



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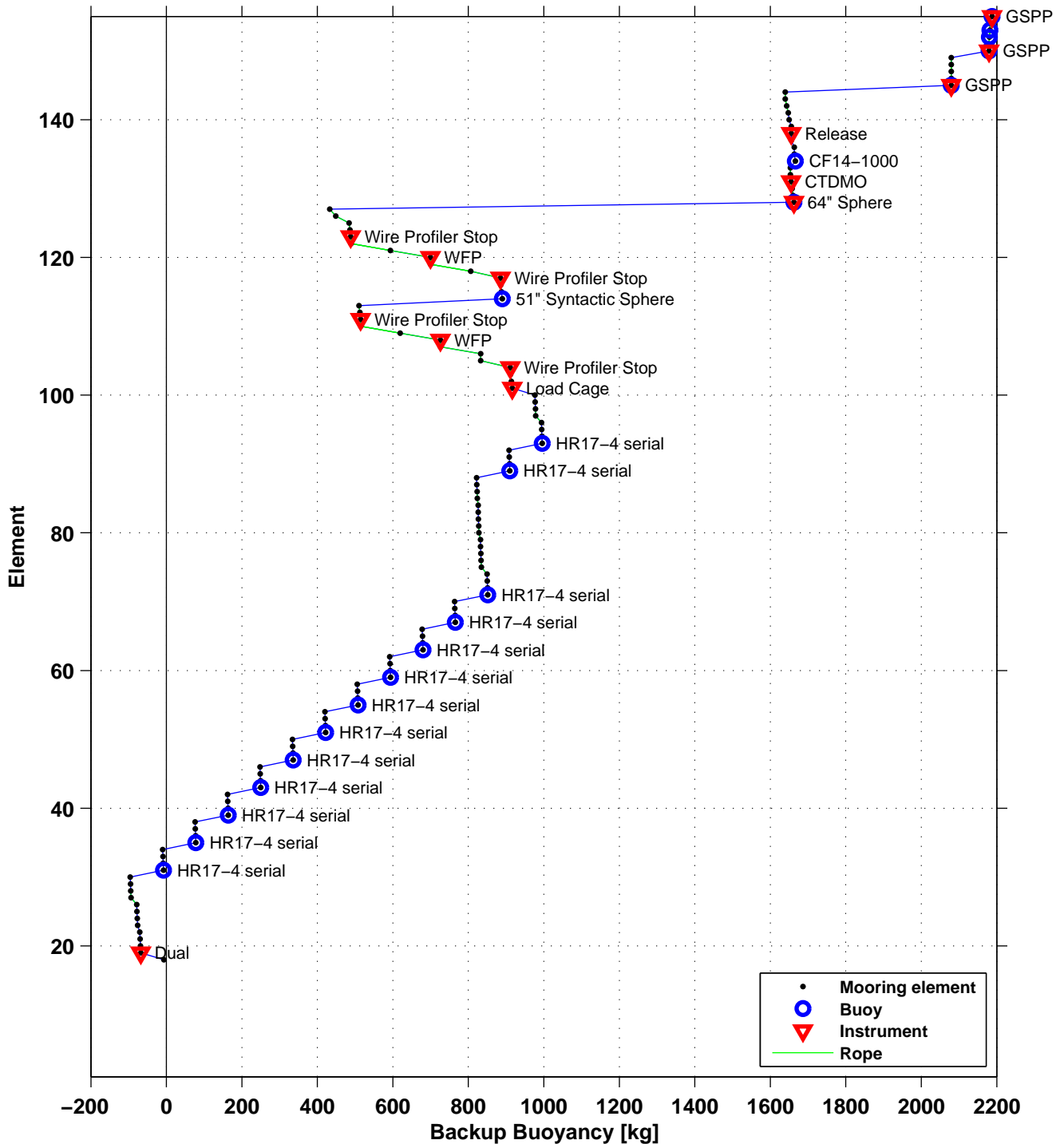


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Backup Buoyancy



NO Current Vertical anchor load : 2119 kg
 Wet safe anchor weight : 2619 kg (125%, max: 500 kg)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



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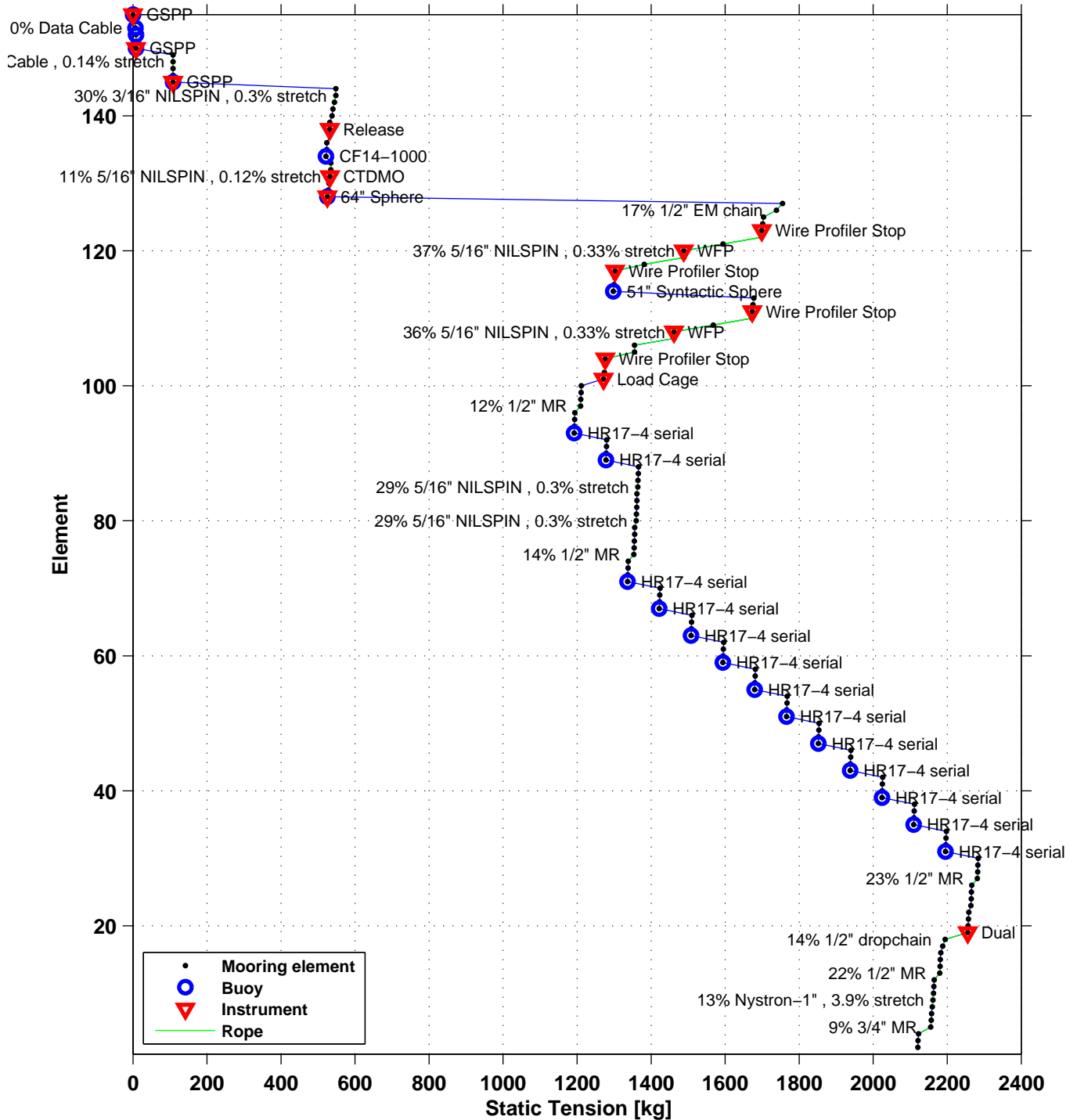


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No Current Static Tension



NO Current Vertical anchor load : 2119 kg
Wet safe anchor weight : 2619 kg (125%, max: 500 kg)
Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



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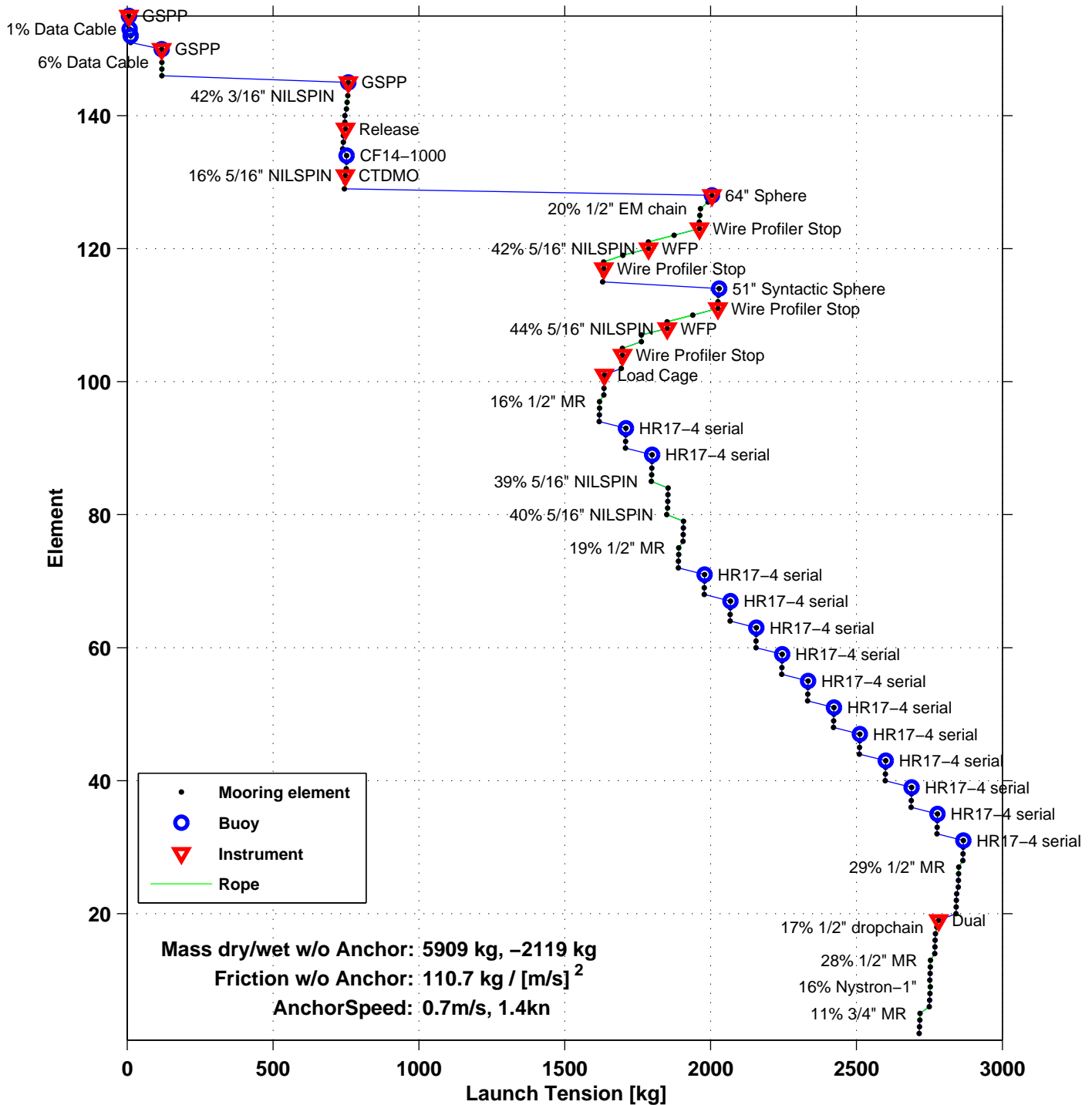


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Steady State Launch Tension



NO Current Vertical anchor load : 2119 kg
Wet safe anchor weight : 2619 kg (125%, max: 500 kg)
Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



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No Current Static Solution – Parameter

#	ID	Mooring Element	Length [m]	Buoy [kg]	Backup B. [kg]	Height [m]	Design Dpt [m]	Tension [kg]	[%]	Stretch [m]	[%]
155	416	GSPP Comm. Float	1.5	6.0	2187.7	4085.6	135.4	0.0	0.0	0.00	0.00
153	130	Data Cable w/	10.0	1.0	2181.7	4084.1	141.9	6.9	0.3	0.00	0.01
152	130	Data Cable w/	13.0	1.3	2180.7	4074.1	153.4	8.2	0.4	0.00	0.01
150	415	GSPP Instrument	2.5	100.0	2179.4	4061.1	161.1	8.3	0.1	0.00	0.00
148	124	Data Cable	3.5	-0.1	2079.4	4058.6	164.2	108.3	5.4	0.01	0.14
147	124	Data Cable	10.0	-0.1	2079.4	4055.1	170.9	108.2	5.4	0.01	0.14
145	410	GSPP Winch Float	1.8	440.0	2079.6	4045.1	176.8	108.1	1.1	0.00	0.00
143	101	3/16" NILSPIN	50.7	-3.9	1639.6	4043.3	203.0	548.1	30.2	0.15	0.30
142	101	3/16" NILSPIN	50.1	-3.9	1643.5	3992.6	253.4	544.2	30.0	0.15	0.30
141	13	ind. term	0.1	-2.4	1647.4	3942.5	278.6	540.3	3.4	0.00	0.00
140	15	coupler ec	0.2	-6.0	1649.8	3942.4	278.7	537.9	3.4	0.00	0.00
138	479	Release Float	1.0	0.0	1655.8	3942.2	279.3	531.9	5.3	0.00	0.00
137	98	EM Swivel 5t	0.6	-8.0	1655.8	3941.2	280.1	531.9	3.5	0.00	0.00
135	13	ind. term	0.1	-2.4	1663.8	3940.6	280.5	523.9	3.3	0.00	0.00
134	256	CF14-1000	0.0	13.0	1666.2	3940.5	280.5	521.5	8.7	0.00	0.00
132	103	5/16" NILSPIN	10.0	-2.1	1653.2	3940.5	285.5	534.5	11.5	0.01	0.12
131	337	CTDMO	0.0	-2.8	1655.3	3930.5	290.5	532.4	5.3	0.00	0.00
130	103	5/16" NILSPIN	10.0	-2.1	1658.1	3930.5	295.5	529.6	11.4	0.01	0.12
129	13	ind. term	0.1	-2.4	1660.2	3920.5	300.6	527.5	3.3	0.00	0.00
128	306	64" Sphere 1000m	2.2	1230.0	1662.6	3920.4	301.8	525.1	5.3	0.00	0.00
127	17	U-Joint	0.3	-16.3	432.6	3918.1	303.0	1755.1	11.0	0.00	0.00
126	141	1/2" EM chain	5.0	-35.0	448.9	3917.8	305.7	1738.8	17.4	0.00	0.00
125	13	ind. term	0.1	-2.4	483.9	3912.8	308.2	1703.8	10.6	0.00	0.00
124	103	5/16" NILSPIN	10.0	-2.1	486.3	3912.7	313.3	1701.4	36.6	0.04	0.38
123	339	Wire Profiler St	0.0	-0.5	488.4	3902.7	318.3	1699.2	28.3	0.00	0.00
122	103	5/16" NILSPIN	491.8	-104.4	488.9	3902.7	564.2	1698.7	36.5	1.79	0.36
121	103	5/16" NILSPIN	501.7	-106.5	593.3	3410.9	1061.0	1594.4	34.3	1.71	0.34
120	340	WFP	0.0	0.0	699.8	2909.2	1311.8	1487.9	14.9	0.00	0.00
119	103	5/16" NILSPIN	501.6	-106.5	699.8	2909.2	1562.6	1487.9	32.0	1.59	0.32
118	103	5/16" NILSPIN	371.1	-78.8	806.3	2407.6	1999.0	1381.4	29.7	1.10	0.30
117	338	Wire Profiler St	0.0	-0.5	885.1	2036.5	2184.5	1302.6	21.7	0.00	0.00
116	103	5/16" NILSPIN	10.0	-2.1	885.6	2036.5	2189.5	1302.1	28.0	0.03	0.29
115	13	ind. term	0.1	-2.4	887.8	2026.5	2194.6	1299.9	8.1	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 [%]	Stretch [m]	Stretch [%]
114	215	51" Syntactic S	1.5	380.0	890.2	2026.4	2195.4	1297.5	13.0	0.00	0.00
113	13	ind. term	0.1	-2.4	510.2	2024.9	2196.2	1677.5	10.5	0.00	0.00
112	103	5/16" NILSPIN	10.0	-2.1	512.6	2024.8	2201.3	1675.1	36.0	0.04	0.37
111	339	Wire Profiler St	0.0	-0.5	514.7	2014.7	2206.3	1673.0	27.9	0.00	0.00
110	103	5/16" NILSPIN	491.8	-104.4	515.2	2014.7	2452.2	1672.5	35.9	1.76	0.36
109	103	5/16" NILSPIN	501.7	-106.5	619.6	1523.0	2948.9	1568.1	33.7	1.68	0.34
108	340	WFP	0.0	0.0	726.1	1021.3	3199.7	1461.6	14.6	0.00	0.00
107	103	5/16" NILSPIN	501.6	-106.5	726.1	1021.3	3450.5	1461.6	31.4	1.56	0.31
105	103	5/16" NILSPIN	371.1	-78.8	832.6	519.7	3886.8	1355.1	29.1	1.08	0.29
104	338	Wire Profiler St	0.0	-0.5	911.4	148.6	4072.4	1276.3	21.3	0.00	0.00
103	103	5/16" NILSPIN	10.0	-2.1	911.9	148.6	4077.4	1275.8	27.4	0.03	0.28
102	13	ind. term	0.1	-2.4	914.0	138.6	4082.4	1273.7	8.0	0.00	0.00
101	300	Load Cage	1.5	-60.0	916.4	138.5	4083.2	1271.3	12.7	0.00	0.00
100	32	AS 3t 5/8"	0.1	-0.7	976.4	137.0	4084.0	1211.3	10.1	0.00	0.00
99	53	PL 3t 3/4"	0.1	-0.7	977.1	136.9	4084.1	1210.6	10.1	0.00	0.00
98	32	AS 3t 5/8"	0.1	-0.7	977.8	136.8	4084.2	1209.9	10.1	0.00	0.00
97	181	1/2" MR	5.0	-15.2	978.5	136.8	4086.7	1209.2	12.1	0.00	0.00
96	32	AS 3t 5/8"	0.1	-0.7	993.7	131.8	4089.3	1194.0	10.0	0.00	0.00
95	53	PL 3t 3/4"	0.1	-0.7	994.3	131.7	4089.4	1193.4	9.9	0.00	0.00
94	32	AS 3t 5/8"	0.1	-0.7	995.1	131.6	4089.4	1192.6	9.9	0.00	0.00
93	274	HR17-4 serial	4.0	88.0	995.7	131.5	4091.5	1192.0	11.9	0.00	0.00
92	32	AS 3t 5/8"	0.1	-0.7	907.7	127.5	4093.5	1280.0	10.7	0.00	0.00
91	53	PL 3t 3/4"	0.1	-0.7	908.4	127.5	4093.6	1279.3	10.7	0.00	0.00
90	32	AS 3t 5/8"	0.1	-0.7	909.1	127.3	4093.7	1278.6	10.7	0.00	0.00
89	274	HR17-4 serial	4.0	88.0	909.8	127.3	4095.7	1277.9	12.8	0.00	0.00
88	32	AS 3t 5/8"	0.1	-0.7	821.8	123.3	4097.8	1365.9	11.4	0.00	0.00
87	53	PL 3t 3/4"	0.1	-0.7	822.4	123.2	4097.8	1365.3	11.4	0.00	0.00
86	32	AS 3t 5/8"	0.1	-0.7	823.2	123.1	4097.9	1364.5	11.4	0.00	0.00
85	103	5/16" NILSPIN	10.0	-2.1	823.8	123.0	4103.0	1363.9	29.3	0.03	0.30
84	491	Parachute	0.0	0.0	826.0	113.0	4108.0	1361.7	13.6	0.00	0.00
83	32	AS 3t 5/8"	0.1	-0.7	826.0	113.0	4108.0	1361.7	11.3	0.00	0.00
82	53	PL 3t 3/4"	0.1	-0.7	826.6	112.9	4108.1	1361.1	11.3	0.00	0.00
81	32	AS 3t 5/8"	0.1	-0.7	827.4	112.8	4108.2	1360.3	11.3	0.00	0.00



OOI Global PAPA Hybrid Profiler Mooring designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, ../projects/ooi/current/gp02hymp/gp02hymp_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

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 [%]
80	103	5/16" NILSPIN	20.1	-4.3	828.0	112.8	4118.3	1359.7	29.2	0.06	0.30
79	491	Parachute	0.0	0.0	832.3	92.7	4128.3	1355.4	13.6	0.00	0.00
78	32	AS 3t 5/8"	0.1	-0.7	832.3	92.7	4128.3	1355.4	11.3	0.00	0.00
77	53	PL 3t 3/4"	0.1	-0.7	833.0	92.6	4128.4	1354.7	11.3	0.00	0.00
76	32	AS 3t 5/8"	0.1	-0.7	833.7	92.5	4128.5	1354.0	11.3	0.00	0.00
75	181	1/2" MR	5.0	-15.2	834.4	92.5	4131.0	1353.3	13.5	0.00	0.00
74	32	AS 3t 5/8"	0.1	-0.7	849.6	87.5	4133.6	1338.1	11.2	0.00	0.00
73	53	PL 3t 3/4"	0.1	-0.7	850.2	87.4	4133.7	1337.5	11.1	0.00	0.00
72	32	AS 3t 5/8"	0.1	-0.7	851.0	87.3	4133.8	1336.7	11.1	0.00	0.00
71	274	HR17-4 serial	4.0	88.0	851.6	87.2	4135.8	1336.1	13.4	0.00	0.00
70	32	AS 3t 5/8"	0.1	-0.7	763.6	83.2	4137.8	1424.1	11.9	0.00	0.00
69	53	PL 3t 3/4"	0.1	-0.7	764.3	83.1	4137.9	1423.4	11.9	0.00	0.00
68	32	AS 3t 5/8"	0.1	-0.7	765.0	83.0	4138.0	1422.7	11.9	0.00	0.00
67	274	HR17-4 serial	4.0	88.0	765.7	83.0	4140.0	1422.0	14.2	0.00	0.00
66	32	AS 3t 5/8"	0.1	-0.7	677.7	79.0	4142.1	1510.0	12.6	0.00	0.00
65	53	PL 3t 3/4"	0.1	-0.7	678.3	78.9	4142.2	1509.4	12.6	0.00	0.00
64	32	AS 3t 5/8"	0.1	-0.7	679.1	78.8	4142.2	1508.6	12.6	0.00	0.00
63	274	HR17-4 serial	4.0	88.0	679.7	78.7	4144.3	1508.0	15.1	0.00	0.00
62	32	AS 3t 5/8"	0.1	-0.7	591.7	74.7	4146.3	1596.0	13.3	0.00	0.00
61	53	PL 3t 3/4"	0.1	-0.7	592.4	74.7	4146.4	1595.3	13.3	0.00	0.00
60	32	AS 3t 5/8"	0.1	-0.7	593.1	74.5	4146.5	1594.5	13.3	0.00	0.00
59	274	HR17-4 serial	4.0	88.0	593.8	74.5	4148.5	1593.9	15.9	0.00	0.00
58	32	AS 3t 5/8"	0.1	-0.7	505.8	70.5	4150.6	1681.9	14.0	0.00	0.00
57	53	PL 3t 3/4"	0.1	-0.7	506.5	70.4	4150.6	1681.2	14.0	0.00	0.00
56	32	AS 3t 5/8"	0.1	-0.7	507.2	70.3	4150.7	1680.5	14.0	0.00	0.00
55	274	HR17-4 serial	4.0	88.0	507.9	70.2	4152.8	1679.8	16.8	0.00	0.00
54	32	AS 3t 5/8"	0.1	-0.7	419.9	66.2	4154.8	1767.8	14.7	0.00	0.00
53	53	PL 3t 3/4"	0.1	-0.7	420.5	66.2	4154.9	1767.2	14.7	0.00	0.00
52	32	AS 3t 5/8"	0.1	-0.7	421.3	66.1	4155.0	1766.4	14.7	0.00	0.00
51	274	HR17-4 serial	4.0	88.0	421.9	66.0	4157.0	1765.8	17.7	0.00	0.00
50	32	AS 3t 5/8"	0.1	-0.7	333.9	62.0	4159.0	1853.8	15.4	0.00	0.00
49	53	PL 3t 3/4"	0.1	-0.7	334.6	61.9	4159.1	1853.1	15.4	0.00	0.00
48	32	AS 3t 5/8"	0.1	-0.7	335.3	61.8	4159.2	1852.4	15.4	0.00	0.00



OOI Global PAPA Hybrid Profiler Mooring designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, ../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

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]	[%]
47	274	HR17-4 serial	4.0	88.0	336.0	61.7	4161.3	1851.7	18.5	0.00	0.00
46	32	AS 3t 5/8"	0.1	-0.7	248.0	57.7	4163.3	1939.7	16.2	0.00	0.00
45	53	PL 3t 3/4"	0.1	-0.7	248.7	57.7	4163.4	1939.0	16.2	0.00	0.00
44	32	AS 3t 5/8"	0.1	-0.7	249.4	57.6	4163.5	1938.3	16.2	0.00	0.00
43	274	HR17-4 serial	4.0	88.0	250.1	57.5	4165.5	1937.6	19.4	0.00	0.00
42	32	AS 3t 5/8"	0.1	-0.7	162.1	53.5	4167.5	2025.6	16.9	0.00	0.00
41	53	PL 3t 3/4"	0.1	-0.7	162.7	53.4	4167.6	2025.0	16.9	0.00	0.00
40	32	AS 3t 5/8"	0.1	-0.7	163.5	53.3	4167.7	2024.2	16.9	0.00	0.00
39	274	HR17-4 serial	4.0	88.0	164.1	53.3	4169.7	2023.6	20.2	0.00	0.00
38	32	AS 3t 5/8"	0.1	-0.7	76.1	49.3	4171.8	2111.6	17.6	0.00	0.00
37	53	PL 3t 3/4"	0.1	-0.7	76.8	49.2	4171.9	2110.9	17.6	0.00	0.00
36	32	AS 3t 5/8"	0.1	-0.7	77.5	49.1	4172.0	2110.2	17.6	0.00	0.00
35	274	HR17-4 serial	4.0	88.0	78.2	49.0	4174.0	2109.5	21.1	0.00	0.00
34	32	AS 3t 5/8"	0.1	-0.7	-9.8	45.0	4176.0	2197.5	18.3	0.00	0.00
33	53	PL 3t 3/4"	0.1	-0.7	-9.2	44.9	4176.1	2196.9	18.3	0.00	-0.00
32	32	AS 3t 5/8"	0.1	-0.7	-8.4	44.8	4176.2	2196.1	18.3	0.00	0.00
31	274	HR17-4 serial	4.0	88.0	-7.8	44.8	4178.2	2195.5	22.0	0.00	0.00
30	32	AS 3t 5/8"	0.1	-0.7	-95.8	40.8	4180.3	2283.5	19.0	0.00	0.00
29	53	PL 3t 3/4"	0.1	-0.7	-95.1	40.7	4180.4	2282.8	19.0	0.00	0.00
28	32	AS 3t 5/8"	0.1	-0.7	-94.4	40.6	4180.4	2282.1	19.0	0.00	0.00
27	181	1/2" MR	5.0	-15.2	-93.7	40.5	4183.0	2281.4	22.8	0.00	0.00
26	32	AS 3t 5/8"	0.1	-0.7	-78.5	35.5	4185.5	2266.2	18.9	0.00	0.00
25	53	PL 3t 3/4"	0.1	-0.7	-77.8	35.5	4185.6	2265.5	18.9	0.00	0.00
24	33	AS 5t 3/4"	0.1	-1.1	-77.1	35.3	4185.7	2264.8	12.6	0.00	0.00
23	94	Swivel 5t	0.2	-5.3	-76.0	35.3	4185.8	2263.7	22.6	0.00	0.00
22	33	AS 5t 3/4"	0.1	-1.1	-70.7	35.0	4186.0	2258.4	12.5	0.00	0.00
21	53	PL 3t 3/4"	0.1	-0.7	-69.6	35.0	4186.1	2257.3	18.8	0.00	0.00
20	33	AS 5t 3/4"	0.1	-1.1	-68.9	34.9	4186.2	2256.6	12.5	0.00	0.00
19	478	Dual Release	1.0	-61.0	-67.8	34.8	4186.7	2255.5	22.6	0.00	0.00
18	480	1/2" dropchain	0.6	-6.8	-6.8	33.7	4187.6	2194.5	13.7	0.00	0.00
17	76	ML 17t 1-1/4"	0.2	-4.8	NaN	33.1	4188.0	2187.7	5.0	0.00	0.00
16	34	AS 6t 7/8"	0.1	-1.6	NaN	32.9	4188.2	2182.8	9.1	0.00	0.00
15	53	PL 3t 3/4"	0.1	-0.7	NaN	32.8	4188.3	2181.3	18.2	0.00	0.00



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, ../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

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 [%]
14	32	AS 3t 5/8"	0.1	-0.7	NaN	32.7	4188.3	2180.5	18.2	0.00	0.00
13	181	1/2" MR	5.0	-15.2	NaN	32.6	4190.9	2179.9	21.8	0.00	0.00
12	32	AS 3t 5/8"	0.1	-0.7	NaN	27.6	4193.4	2164.7	18.0	0.00	0.00
11	64	EL 6t 7/8"	0.1	-1.0	NaN	27.6	4193.5	2164.0	9.0	0.00	0.00
10	34	AS 6t 7/8"	0.1	-1.6	NaN	27.4	4193.6	2163.0	9.0	0.00	0.00
9	113	Nystron-1"	20.8	-2.0	NaN	27.3	4204.0	2161.4	12.9	0.77	3.86
8	34	AS 6t 7/8"	0.1	-1.6	NaN	6.6	4214.5	2159.5	9.0	0.00	0.00
7	64	EL 6t 7/8"	0.1	-1.0	NaN	6.5	4214.6	2157.9	9.0	0.00	0.00
6	34	AS 6t 7/8"	0.1	-1.6	NaN	6.4	4214.7	2156.9	9.0	0.00	0.00
5	183	3/4" MR	5.0	-33.1	NaN	6.3	4217.2	2155.3	9.0	0.00	0.00
4	33	AS 5t 3/4"	0.1	-1.1	NaN	1.3	4219.8	2122.3	11.8	0.00	0.00
3	53	PL 3t 3/4"	0.1	-0.7	NaN	1.2	4219.9	2121.2	17.7	0.00	0.00
2	34	AS 6t 7/8"	0.1	-1.6	NaN	1.1	4220.0	2120.5	8.8	0.00	0.00
1	522	double MACE Anch	1.0	-2742.1	NaN	1.0	4221.0	2118.9	35.3	0.00	0.00

Max. 36.6% Static Tension at:

124	103	5/16" NILSPIN	10.0	-2.1	486.3	3912.7	313.3	1701.4	36.6	0.04	0.38
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Vertical anchor load : 2119 kg
Wet MACE Anchor weight : 2742 kg
Safe MACE Anchor weight : 2619 kg



OOI Global PAPA Hybrid Profiler Mooring designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, ../projects/ooi/current/gp02hymp/gp02hymp_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Steady State Launch Tension – Parameter: descent at 0.74 m/s, 1.4 kn

#	ID	Mooring Element	Length [m]	Buoy [kg]	Diameter [m]	Area [m ²]	Ct	Drag [kg]	LaunchTension [kg]	[%]
155	416	GSPP Comm. Float	1.5	6.0	0.140	0.015	0.80	0.35	6.4	0.1
153	130	Data Cable w/	10.0	1.0	0.020	0.628	0.08	1.40	8.8	0.4
152	130	Data Cable w/	13.0	1.3	0.020	0.817	0.08	1.82	11.9	0.6
150	415	GSPP Instrument	2.5	100.0	0.610	0.292	0.80	6.72	118.6	1.2
148	124	Data Cable	3.5	-0.1	0.006	0.072	0.08	0.17	118.7	5.9
147	124	Data Cable	10.0	-0.1	0.006	0.204	0.08	0.49	119.1	6.0
145	410	GSPP Winch Float	1.8	440.0	1.400	1.539	4.50	199.19	758.2	7.6
143	101	3/16" NILSPIN	50.7	-3.9	0.006	1.009	0.06	1.80	756.1	41.6
142	101	3/16" NILSPIN	50.1	-3.9	0.006	0.999	0.06	1.78	754.1	41.5
141	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.08	751.8	4.7
140	15	coupler ec	0.2	-6.0	0.100	0.008	1.50	0.34	746.1	4.7
138	479	Release Float	1.0	0.0	0.370	0.108	0.90	2.78	748.9	7.5
137	98	EM Swivel 5t	0.6	-8.0	0.090	0.006	1.20	0.22	741.1	4.9
135	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.08	738.8	4.6
134	256	CF14-1000	0.0	13.0	0.300	0.071	0.30	0.61	752.4	12.5
132	103	5/16" NILSPIN	10.0	-2.1	0.010	0.300	0.08	0.68	750.9	16.1
131	337	CTDMO	0.0	-2.8	0.075	0.004	1.00	0.13	748.3	7.5
130	103	5/16" NILSPIN	10.0	-2.1	0.010	0.300	0.08	0.68	746.8	16.1
129	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.08	744.5	4.7
128	306	64" Sphere 1000m	2.2	1230.0	1.630	2.087	0.50	30.00	2004.5	20.0
127	17	U-Joint	0.3	-16.3	0.300	0.071	1.50	3.05	1991.3	12.4
126	141	1/2" EM chain	5.0	-35.0	0.200	3.142	0.10	8.95	1965.2	19.7
125	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.08	1962.9	12.3
124	103	5/16" NILSPIN	10.0	-2.1	0.010	0.300	0.04	0.36	1961.1	42.1
123	339	Wire Profiler St	0.0	-0.5	0.280	0.062	0.50	0.89	1961.5	32.7
122	103	5/16" NILSPIN	491.8	-104.4	0.010	14.697	0.04	17.84	1875.0	40.3
121	103	5/16" NILSPIN	501.7	-106.5	0.010	14.995	0.04	18.20	1786.7	38.4
120	340	WFP	0.0	0.0	0.350	0.096	0.20	0.55	1787.2	17.9
119	103	5/16" NILSPIN	501.6	-106.5	0.010	14.993	0.04	18.20	1698.9	36.5
118	103	5/16" NILSPIN	371.1	-78.8	0.010	11.094	0.04	13.47	1633.6	35.1
117	338	Wire Profiler St	0.0	-0.5	0.280	0.062	0.50	0.89	1634.0	27.2
116	103	5/16" NILSPIN	10.0	-2.1	0.010	0.300	0.04	0.36	1632.2	35.1
115	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.08	1629.9	10.2



OOI Global PAPA Hybrid Profiler Mooring

designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, ../projects/ooi/current/gp02hymp/gp02hymp_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Steady State Launch Tension – Parameter: descent at 0.74 m/s, 1.4 kn, cont.

#	ID	Mooring Element	Length [m]	Buoy [kg]	Diameter [m]	Area [m^2]	Ct	Drag [kg]	LaunchTension [kg]	[%]
114	215	51" Syntactic S	1.5	380.0	1.300	1.327	0.50	19.08	2029.0	20.3
113	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.08	2026.7	12.7
112	103	5/16" NILSPIN	10.0	-2.1	0.010	0.300	0.04	0.36	2024.9	43.5
111	339	Wire Profiler St	0.0	-0.5	0.280	0.062	0.50	0.89	2025.3	33.8
110	103	5/16" NILSPIN	491.8	-104.4	0.010	14.697	0.04	17.84	1938.8	41.7
109	103	5/16" NILSPIN	501.7	-106.5	0.010	14.995	0.04	18.20	1850.5	39.8
108	340	WFP	0.0	0.0	0.350	0.096	0.20	0.55	1851.0	18.5
107	103	5/16" NILSPIN	501.6	-106.5	0.010	14.993	0.04	18.20	1762.7	37.9
105	103	5/16" NILSPIN	371.1	-78.8	0.010	11.094	0.04	13.47	1697.4	36.5
104	338	Wire Profiler St	0.0	-0.5	0.280	0.062	0.50	0.89	1697.8	28.3
103	103	5/16" NILSPIN	10.0	-2.1	0.010	0.300	0.04	0.36	1696.0	36.4
102	13	ind. term	0.1	-2.4	0.050	0.002	1.50	0.08	1693.7	10.6
101	300	Load Cage	1.5	-60.0	0.300	0.071	0.90	1.83	1635.5	16.4
100	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1635.0	13.6
99	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	1634.4	13.6
98	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1633.8	13.6
97	181	1/2" MR	5.0	-15.2	0.020	0.314	0.10	0.90	1619.5	16.2
96	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1619.0	13.5
95	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	1618.4	13.5
94	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1617.9	13.5
93	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.67	3.75	1709.6	17.1
92	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1709.1	14.2
91	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	1708.5	14.2
90	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1708.0	14.2
89	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.67	3.75	1799.7	18.0
88	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1799.2	15.0
87	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	1798.6	15.0
86	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1798.1	15.0
85	103	5/16" NILSPIN	10.0	-2.1	0.010	0.300	0.09	0.76	1796.7	38.6
84	491	Parachute	0.0	0.0	1.382	1.500	1.33	57.37	1854.1	18.5
83	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1853.5	15.4
82	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	1852.9	15.4
81	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1852.4	15.4



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst 27-Jan-2014 DCN: 3203-00010 REV: B REF.DES. GP02HYPM

Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hymp/gp02hymp_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Steady State Launch Tension – Parameter: descent at 0.74 m/s, 1.4 kn, cont.

#	ID	Mooring Element	Length [m]	Buoy [kg]	Diameter [m]	Area [m ²]	Ct	Drag [kg]	LaunchTension [kg]	[%]
80	103	5/16" NILSPIN	20.1	-4.3	0.010	0.600	0.08	1.36	1849.5	39.7
79	491	Parachute	0.0	0.0	1.382	1.500	1.33	57.37	1906.9	19.1
78	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1906.3	15.9
77	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	1905.7	15.9
76	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1905.2	15.9
75	181	1/2" MR	5.0	-15.2	0.020	0.314	0.10	0.90	1890.9	18.9
74	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1890.4	15.8
73	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	1889.8	15.7
72	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1889.2	15.7
71	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.42	2.35	1979.6	19.8
70	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1979.1	16.5
69	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	1978.4	16.5
68	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	1977.9	16.5
67	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.42	2.35	2068.3	20.7
66	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2067.7	17.2
65	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	2067.1	17.2
64	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2066.6	17.2
63	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.42	2.35	2156.9	21.6
62	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2156.4	18.0
61	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	2155.8	18.0
60	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2155.3	18.0
59	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.42	2.35	2245.6	22.5
58	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2245.1	18.7
57	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	2244.5	18.7
56	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2244.0	18.7
55	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.42	2.35	2334.3	23.3
54	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2333.8	19.4
53	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	2333.2	19.4
52	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2332.6	19.4
51	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.42	2.35	2423.0	24.2
50	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2422.5	20.2
49	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	2421.8	20.2
48	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2421.3	20.2



OOI Global PAPA Hybrid Profiler Mooring designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, ../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Steady State Launch Tension – Parameter: descent at 0.74 m/s, 1.4 kn, cont.

#	ID	Mooring Element	Length [m]	Buoy [kg]	Diameter [m]	Area [m^2]	Ct	Drag [kg]	LaunchTension [kg]	[%]
47	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.42	2.35	2511.7	25.1
46	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2511.1	20.9
45	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	2510.5	20.9
44	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2510.0	20.9
43	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.42	2.35	2600.4	26.0
42	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2599.8	21.7
41	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	2599.2	21.7
40	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2598.7	21.7
39	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.42	2.35	2689.0	26.9
38	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2688.5	22.4
37	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	2687.9	22.4
36	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2687.4	22.4
35	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.42	2.35	2777.7	27.8
34	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2777.2	23.1
33	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	2776.6	23.1
32	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2776.1	23.1
31	274	HR17-4 serial	4.0	88.0	0.500	0.196	0.42	2.35	2866.4	28.7
30	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2865.9	23.9
29	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	2865.3	23.9
28	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2864.7	23.9
27	181	1/2" MR	5.0	-15.2	0.020	0.314	0.10	0.90	2850.4	28.5
26	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2849.9	23.7
25	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	2849.3	23.7
24	33	AS 5t 3/4"	0.1	-1.1	0.080	0.005	1.50	0.22	2848.4	15.8
23	94	Swivel 5t	0.2	-5.3	0.100	0.008	1.20	0.27	2843.4	28.4
22	33	AS 5t 3/4"	0.1	-1.1	0.080	0.005	1.50	0.22	2842.5	15.8
21	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	2841.9	23.7
20	33	AS 5t 3/4"	0.1	-1.1	0.080	0.005	1.50	0.22	2841.0	15.8
19	478	Dual Release	1.0	-61.0	0.300	0.071	0.90	1.83	2781.9	27.8
18	480	1/2" dropchain	0.6	-6.8	0.040	0.001	1.00	0.04	2775.1	17.3
17	76	ML 17t 1-1/4"	0.2	-4.8	0.085	0.006	1.50	0.24	2770.5	6.3
16	34	AS 6t 7/8"	0.1	-1.6	0.088	0.006	1.50	0.26	2769.2	11.5
15	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	2768.6	23.1



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst 27-Jan-2014 DCN: 3203-00010 REV: B REF.DES. GP02HYPM

Source: 27-Jan-2014 11:31:38, ../projects/ooi/current/gp02hymp/gp02hymp_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Steady State Launch Tension – Parameter: descent at 0.74 m/s, 1.4 kn, cont.

#	ID	Mooring Element	Length [m]	Buoy [kg]	Diameter [m]	Area [m ²]	Ct	Drag [kg]	LaunchTension [kg]	[%]
14	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2768.1	23.1
13	181	1/2" MR	5.0	-15.2	0.020	0.314	0.10	0.90	2753.8	27.5
12	32	AS 3t 5/8"	0.1	-0.7	0.064	0.003	1.50	0.14	2753.2	22.9
11	64	EL 6t 7/8"	0.1	-1.0	0.066	0.003	1.50	0.15	2752.4	11.5
10	34	AS 6t 7/8"	0.1	-1.6	0.088	0.006	1.50	0.26	2751.1	11.5
9	113	Nystron-1"	20.8	-2.0	0.026	1.665	0.08	3.78	2752.9	16.4
8	34	AS 6t 7/8"	0.1	-1.6	0.088	0.006	1.50	0.26	2751.6	11.5
7	64	EL 6t 7/8"	0.1	-1.0	0.066	0.003	1.50	0.15	2750.7	11.5
6	34	AS 6t 7/8"	0.1	-1.6	0.088	0.006	1.50	0.26	2749.4	11.5
5	183	3/4" MR	5.0	-33.1	0.030	0.471	0.10	1.34	2717.7	11.3
4	33	AS 5t 3/4"	0.1	-1.1	0.080	0.005	1.50	0.22	2716.9	15.1
3	53	PL 3t 3/4"	0.1	-0.7	0.060	0.003	1.50	0.12	2716.2	22.6
2	34	AS 6t 7/8"	0.1	-1.6	0.088	0.006	1.50	0.26	2714.9	11.3
1	522	double MACE Anch	1.0	-2742.1	1.000	0.785	1.20	27.10	0.0	0.0

Max. 43.5% Launch Tension at:

112	103	5/16" NILSPIN	10.0	-2.1	0.010	0.300	0.04	0.36	2024.9	43.5
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Mass dry / wet w/o Anchor: 5909 kg, -2119 kg
 Drag / Friction w/o Anchor: 596.0 kg, 1086.0 kg/[m/s]^2
 Dry/Wet MACE Anchor weight: 3170 kg, 2742 kg
 Steady State AnchorSpeed : 0.74 m/s, 1.4 kn



OOI Global PAPA Hybrid Profiler Mooring
 designed for 4221m Depth, parking position

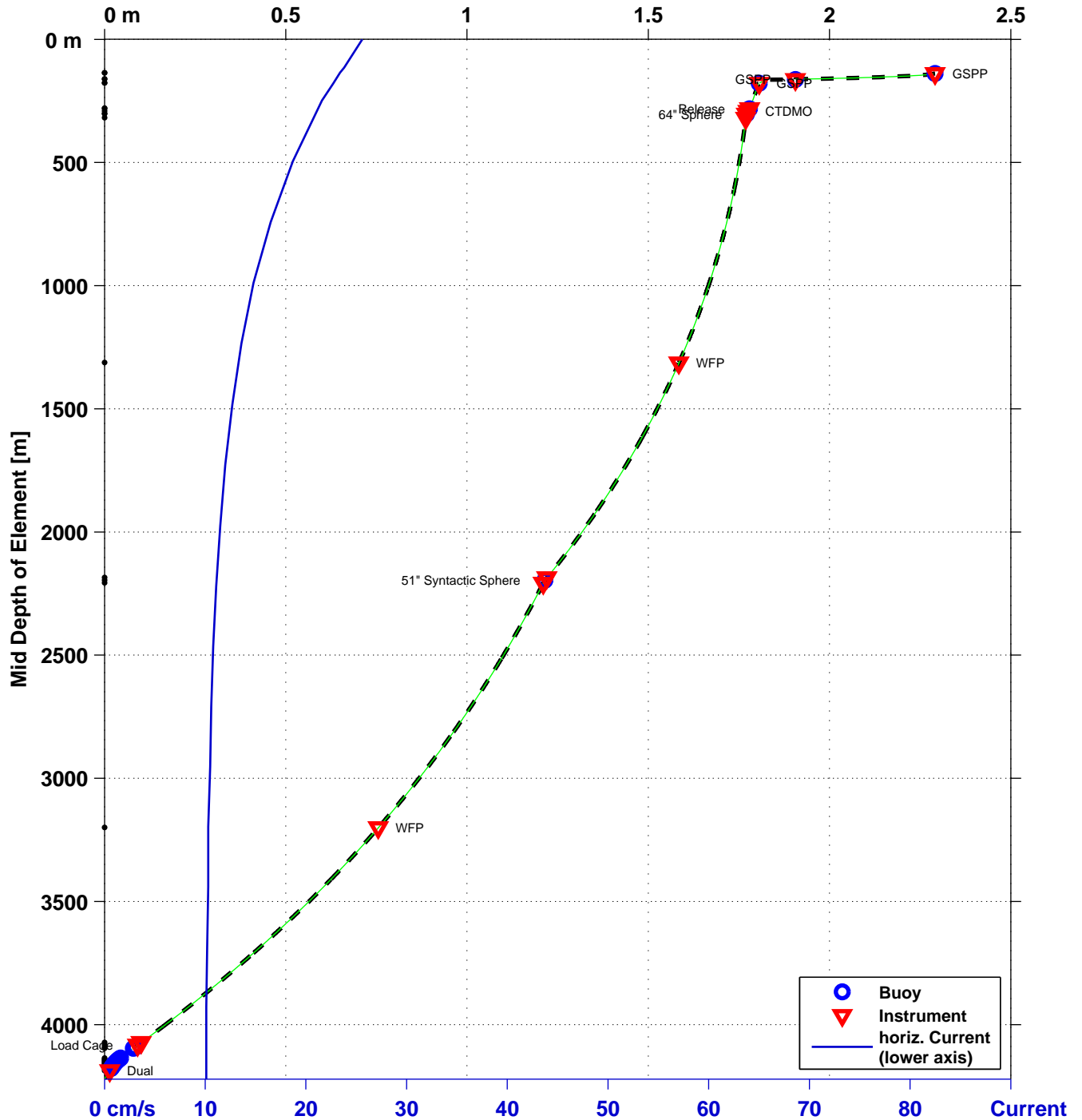


By: M. Lankhorst 27-Jan-2014 DCN: 3203-00010 REV: B REF.DES. GP02HYPM

Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyperm/gp02hyperm_bak20140124.cfg

Author: 27-Jan-2014 11:31:48, mlankhorst@sendlab01(GLNX86)

Event #001 – Subduction [m]: max. 2m, Top at 138m
 Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf



Event #001: Vert / Horiz anchor load: 2117 kg / 62 kg
 Vert / Horiz anchor safety : 125 % / 120 %,
 Safe Wet MACE anchor weight: 2619 kg, (max. 500 kg or Horiz. safety)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



OOI Global PAPA Hybrid Profiler Mooring
 designed for 4221m Depth, parking position



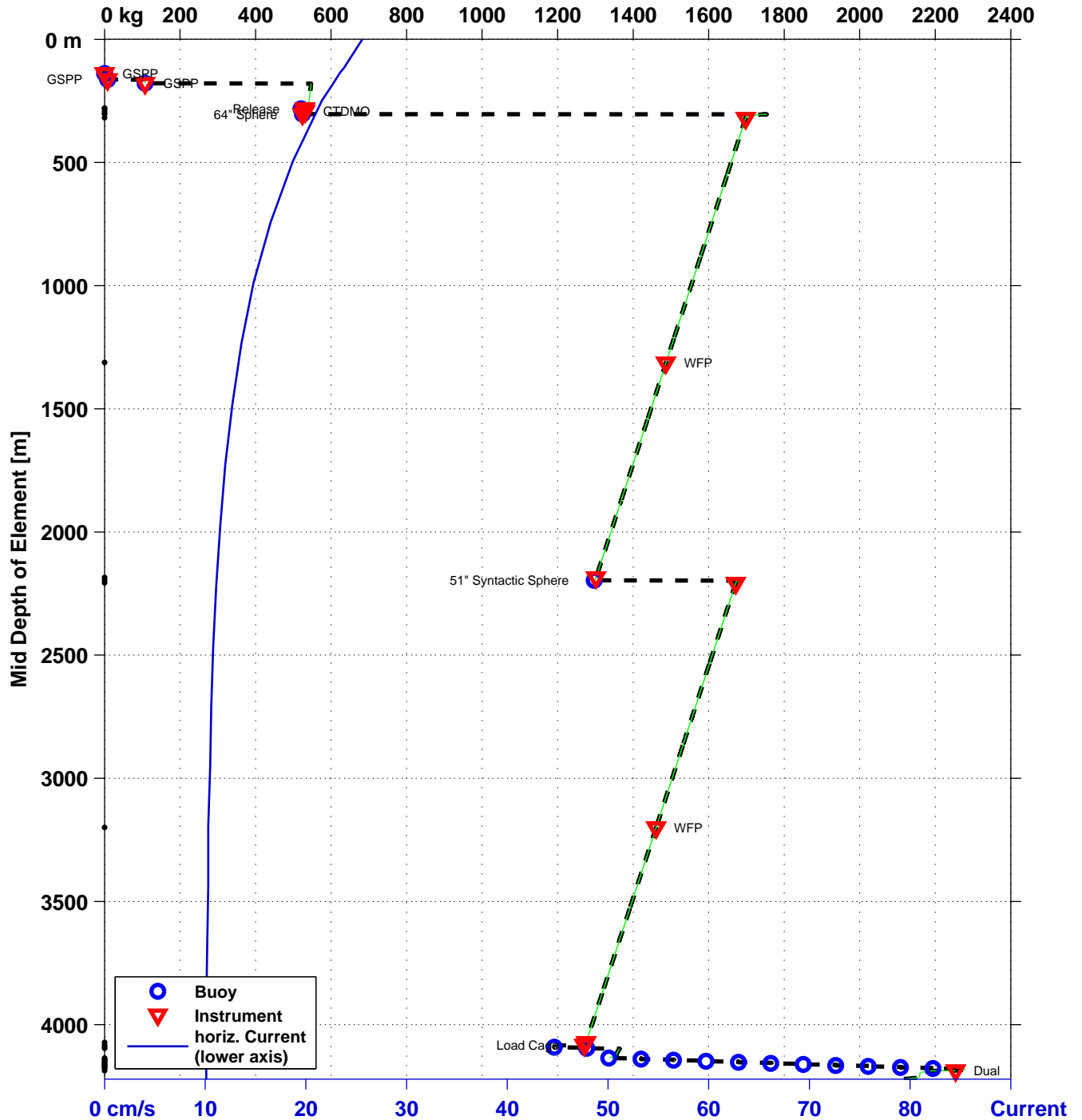
By: M. Lankhorst 27-Jan-2014 DCN: 3203-00010 REV: B REF.DES. GP02HYPM

Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

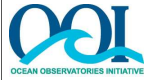
Author: 27-Jan-2014 11:31:48, mlankhorst@sendlab01(GLNX86)

Event #001 – Tension [kg]

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf



Event #001: Vert / Horiz anchor load: 2117 kg / 62 kg
 Vert / Horiz anchor safety : 125 % / 120 %,
 Safe Wet MACE anchor weight: 2619 kg, (max. 500 kg or Horiz. safety)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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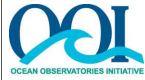
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Result

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
155	416	GSPP Comm. Float	1.5	6.0	0.210	0.80	0.23	0.5	0.0	0.0	0.00	0.00	137.7	2.3	121.9	4.6
153	130	Data Cable w/	10.0	1.0	0.200	1.30	0.23	0.7	6.9	0.3	0.00	0.01	139.7	2.3	121.8	9.4
152	130	Data Cable w/	13.0	1.3	0.260	1.30	0.23	0.9	8.2	0.4	0.00	0.01	149.6	2.2	120.6	14.4
150	415	GSPP Instrument	2.5	100.0	1.525	0.80	0.23	3.3	8.3	0.1	0.00	0.00	163.1	1.9	117.8	14.7
148	124	Data Cable	3.5	-0.1	0.023	1.30	0.23	0.1	107.4	5.4	0.00	0.14	164.7	1.8	117.2	2.9
147	124	Data Cable	10.0	-0.1	0.065	1.30	0.23	0.2	107.3	5.4	0.01	0.14	168.2	1.8	117.0	3.0
145	410	GSPP Winch Float	1.8	440.0	1.539	1.20	0.23	5.0	107.2	1.1	0.00	0.00	178.6	1.8	116.5	3.1
143	101	3/16" NILSPIN	50.7	-3.9	0.321	1.10	0.22	0.9	547.1	30.1	0.15	0.30	180.0	1.8	116.4	1.2
142	101	3/16" NILSPIN	50.1	-3.9	0.317	1.10	0.22	0.8	543.2	29.9	0.15	0.30	230.7	1.8	115.3	1.3
141	13	ind. term	0.1	-2.4	0.005	1.50	0.21	0.0	539.4	3.4	0.00	0.00	280.3	1.8	114.2	1.3
140	15	coupler ec	0.2	-6.0	0.020	1.50	0.21	0.1	537.0	3.4	0.00	0.00	280.5	1.8	114.2	1.3
138	479	Release Float	1.0	0.0	0.592	1.20	0.21	1.7	531.0	5.3	0.00	0.00	281.1	1.8	114.2	1.4
137	98	EM Swivel 5t	0.6	-8.0	0.054	1.20	0.21	0.2	531.0	3.5	0.00	0.00	281.9	1.8	114.2	1.5
135	13	ind. term	0.1	-2.4	0.005	1.50	0.21	0.0	523.0	3.3	0.00	0.00	282.2	1.8	114.2	1.6
134	256	CF14-1000	0.0	13.0	0.225	0.50	0.21	0.3	520.6	8.7	0.00	0.00	282.3	1.8	114.2	1.6
132	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.21	0.2	533.6	11.5	0.01	0.12	282.8	1.8	114.2	1.6
131	337	CTDMO	0.0	-2.8	0.042	1.40	0.21	0.1	531.5	5.3	0.00	0.00	292.3	1.8	113.9	1.6



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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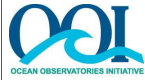
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyperm/gp02hyperm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
130	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.21	0.2	528.7	11.4	0.01	0.12	292.8	1.8	113.9	1.7
129	13	ind. term	0.1	-2.4	0.005	1.50	0.21	0.0	526.5	3.3	0.00	0.00	302.4	1.8	113.6	1.7
128	306	64" Sphere 1000m	2.2	1230.0	2.087	0.50	0.21	2.4	524.1	5.2	0.00	0.00	303.5	1.8	113.6	1.7
127	17	U-Joint	0.3	-16.3	0.090	1.50	0.21	0.3	1754.0	11.0	0.00	0.00	304.8	1.8	113.5	0.6
126	141	1/2" EM chain	5.0	-35.0	1.000	1.30	0.21	3.0	1737.7	17.4	0.00	0.00	305.5	1.8	113.5	0.7
125	13	ind. term	0.1	-2.4	0.005	1.50	0.21	0.0	1702.7	10.6	0.00	0.00	310.0	1.8	113.5	0.7
124	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.21	0.2	1700.3	36.5	0.04	0.38	310.6	1.8	113.5	0.7
123	339	Wire Profiler St	0.0	-0.5	0.070	0.50	0.21	0.1	1698.2	28.3	0.00	0.00	320.1	1.8	113.3	0.7
122	103	5/16" NILSPIN	491.8	-104.4	4.670	1.10	0.18	8.9	1697.7	36.5	1.79	0.36	320.6	1.8	113.3	1.1
121	103	5/16" NILSPIN	501.7	-106.5	4.765	1.10	0.15	5.8	1593.3	34.2	1.71	0.34	812.3	1.7	105.5	1.4
120	340	WFP	0.0	0.0	0.457	0.20	0.13	0.1	1486.8	14.9	0.00	0.00	1313.4	1.6	94.6	1.4
119	103	5/16" NILSPIN	501.6	-106.5	4.765	1.10	0.12	4.3	1486.8	32.0	1.59	0.32	1313.9	1.6	94.6	1.7
118	103	5/16" NILSPIN	371.1	-78.8	3.526	1.10	0.11	2.7	1380.4	29.7	1.10	0.30	1815.3	1.4	81.2	1.9
117	338	Wire Profiler St	0.0	-0.5	0.070	0.50	0.11	0.0	1301.6	21.7	0.00	0.00	2185.7	1.2	69.6	1.9
116	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.11	0.1	1301.1	28.0	0.03	0.29	2186.2	1.2	69.6	1.9
115	13	ind. term	0.1	-2.4	0.005	1.50	0.11	0.0	1299.0	8.1	0.00	0.00	2195.8	1.2	69.2	1.9
114	215	51" Syntactic S	1.5	380.0	1.327	0.50	0.11	0.4	1296.6	13.0	0.00	0.00	2196.6	1.2	69.2	1.9



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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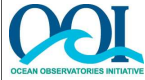
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyps/gp02hyps_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
113	13	ind. term	0.1	-2.4	0.005	1.50	0.11	0.0	1676.4	10.5	0.00	0.00	2197.4	1.2	69.2	1.5
112	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.11	0.1	1674.0	36.0	0.04	0.37	2198.0	1.2	69.2	1.5
111	339	Wire Profiler St	0.0	-0.5	0.070	0.50	0.11	0.0	1671.9	27.9	0.00	0.00	2207.5	1.2	68.9	1.5
110	103	5/16" NILSPIN	491.8	-104.4	4.670	1.10	0.11	3.2	1671.4	35.9	1.76	0.36	2208.0	1.2	68.9	1.7
109	103	5/16" NILSPIN	501.7	-106.5	4.765	1.10	0.10	3.0	1567.1	33.7	1.68	0.34	2699.6	1.0	55.1	2.0
108	340	WFP	0.0	0.0	0.457	0.20	0.10	0.1	1460.6	14.6	0.00	0.00	3200.5	0.8	39.0	2.0
107	103	5/16" NILSPIN	501.6	-106.5	4.765	1.10	0.10	2.9	1460.6	31.4	1.56	0.31	3201.0	0.8	39.0	2.2
105	103	5/16" NILSPIN	371.1	-78.8	3.526	1.10	0.10	2.1	1354.2	29.1	1.08	0.29	3702.2	0.4	20.6	2.5
104	338	Wire Profiler St	0.0	-0.5	0.070	0.50	0.10	0.0	1275.5	21.3	0.00	0.00	4072.5	0.1	5.4	2.5
103	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.10	0.1	1275.0	27.4	0.03	0.28	4073.0	0.1	5.4	2.5
102	13	ind. term	0.1	-2.4	0.005	1.50	0.10	0.0	1272.8	8.0	0.00	0.00	4082.5	0.1	4.9	2.5
101	300	Load Cage	1.5	-60.0	0.300	1.30	0.10	0.2	1270.4	12.7	0.00	0.00	4083.3	0.1	4.9	2.5
100	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1210.5	10.1	0.00	0.00	4084.1	0.1	4.8	2.6
99	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	1209.8	10.1	0.00	0.00	4084.2	0.1	4.8	2.6
98	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1209.1	10.1	0.00	0.00	4084.3	0.1	4.8	2.6
97	181	1/2" MR	5.0	-15.2	0.100	1.60	0.10	0.1	1208.4	12.1	0.00	0.00	4084.8	0.1	4.8	2.7
96	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1193.3	9.9	0.00	0.00	4089.4	0.1	4.6	2.7



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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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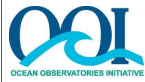
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyps/gp02hyps_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
95	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	1192.6	9.9	0.00	0.00	4089.4	0.1	4.6	2.7
94	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1191.9	9.9	0.00	0.00	4089.5	0.1	4.6	2.7
93	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.10	0.3	1191.2	11.9	0.00	0.00	4091.6	0.1	4.6	2.7
92	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1279.1	10.7	0.00	0.00	4093.6	0.1	4.4	2.5
91	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	1278.4	10.7	0.00	0.00	4093.7	0.1	4.4	2.5
90	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1277.7	10.6	0.00	0.00	4093.8	0.1	4.4	2.5
89	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.10	0.3	1277.0	12.8	0.00	0.00	4095.8	0.1	4.4	2.5
88	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1365.0	11.4	0.00	0.00	4097.8	0.1	4.2	2.4
87	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	1364.3	11.4	0.00	0.00	4097.9	0.1	4.2	2.4
86	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1363.6	11.4	0.00	0.00	4098.0	0.1	4.2	2.4
85	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.10	0.1	1362.9	29.3	0.03	0.30	4098.5	0.1	4.2	2.4
84	491	Parachute	0.0	0.0	1.500	0.50	0.10	0.4	1360.8	13.6	0.00	0.00	4108.1	0.1	3.8	2.4
83	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1360.8	11.3	0.00	0.00	4108.1	0.1	3.8	2.4
82	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	1360.1	11.3	0.00	0.00	4108.2	0.1	3.8	2.4
81	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1359.4	11.3	0.00	0.00	4108.3	0.1	3.8	2.4
80	103	5/16" NILSPIN	20.1	-4.3	0.191	1.10	0.10	0.1	1358.7	29.2	0.06	0.30	4108.8	0.1	3.8	2.4
79	491	Parachute	0.0	0.0	1.500	0.50	0.10	0.4	1354.5	13.5	0.00	0.00	4128.4	0.0	2.9	2.4



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyperm/gp02hyperm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
78	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1354.5	11.3	0.00	0.00	4128.4	0.0	2.9	2.4
77	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	1353.8	11.3	0.00	0.00	4128.5	0.0	2.9	2.4
76	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1353.1	11.3	0.00	0.00	4128.6	0.0	2.9	2.4
75	181	1/2" MR	5.0	-15.2	0.100	1.60	0.10	0.1	1352.4	13.5	0.00	0.00	4129.1	0.0	2.9	2.5
74	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1337.2	11.1	0.00	0.00	4133.6	0.0	2.7	2.5
73	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	1336.6	11.1	0.00	0.00	4133.7	0.0	2.7	2.5
72	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1335.8	11.1	0.00	0.00	4133.8	0.0	2.7	2.5
71	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.10	0.3	1335.2	13.4	0.00	0.00	4135.8	0.0	2.7	2.5
70	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1423.1	11.9	0.00	0.00	4137.9	0.0	2.5	2.3
69	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	1422.4	11.9	0.00	0.00	4138.0	0.0	2.5	2.3
68	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1421.7	11.8	0.00	0.00	4138.0	0.0	2.5	2.3
67	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.10	0.3	1421.0	14.2	0.00	0.00	4140.1	0.0	2.5	2.3
66	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1509.0	12.6	0.00	0.00	4142.1	0.0	2.4	2.2
65	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	1508.3	12.6	0.00	0.00	4142.2	0.0	2.4	2.2
64	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1507.6	12.6	0.00	0.00	4142.3	0.0	2.4	2.2
63	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.10	0.3	1506.9	15.1	0.00	0.00	4144.3	0.0	2.4	2.2
62	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1594.9	13.3	0.00	0.00	4146.3	0.0	2.2	2.1



OOI Global PAPA Hybrid Profiler Mooring
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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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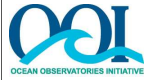
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyps/gp02hyps_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
61	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	1594.2	13.3	0.00	0.00	4146.4	0.0	2.2	2.1
60	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1593.5	13.3	0.00	0.00	4146.5	0.0	2.2	2.1
59	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.10	0.3	1592.8	15.9	0.00	0.00	4148.6	0.0	2.2	2.1
58	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1680.7	14.0	0.00	0.00	4150.6	0.0	2.1	2.0
57	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	1680.1	14.0	0.00	0.00	4150.7	0.0	2.1	2.0
56	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1679.3	14.0	0.00	0.00	4150.8	0.0	2.0	2.0
55	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.10	0.3	1678.7	16.8	0.00	0.00	4152.8	0.0	2.0	2.0
54	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1766.6	14.7	0.00	0.00	4154.8	0.0	1.9	1.9
53	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	1766.0	14.7	0.00	0.00	4154.9	0.0	1.9	1.9
52	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1765.2	14.7	0.00	0.00	4155.0	0.0	1.9	1.9
51	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.10	0.3	1764.6	17.6	0.00	0.00	4157.0	0.0	1.9	1.9
50	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1852.5	15.4	0.00	0.00	4159.1	0.0	1.8	1.8
49	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	1851.9	15.4	0.00	0.00	4159.2	0.0	1.8	1.8
48	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1851.1	15.4	0.00	0.00	4159.2	0.0	1.8	1.8
47	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.10	0.3	1850.5	18.5	0.00	0.00	4161.3	0.0	1.8	1.8
46	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1938.4	16.2	0.00	0.00	4163.3	0.0	1.6	1.8
45	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	1937.8	16.1	0.00	0.00	4163.4	0.0	1.6	1.8



OOI Global PAPA Hybrid Profiler Mooring
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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyps/gp02hyps_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
44	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	1937.0	16.1	0.00	0.00	4163.5	0.0	1.6	1.8
43	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.10	0.3	1936.4	19.4	0.00	0.00	4165.5	0.0	1.6	1.8
42	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	2024.3	16.9	0.00	0.00	4167.6	0.0	1.5	1.7
41	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	2023.7	16.9	0.00	0.00	4167.6	0.0	1.5	1.7
40	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	2022.9	16.9	0.00	0.00	4167.7	0.0	1.5	1.7
39	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.10	0.3	2022.3	20.2	0.00	0.00	4169.8	0.0	1.5	1.7
38	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	2110.2	17.6	0.00	0.00	4171.8	0.0	1.4	1.6
37	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	2109.6	17.6	0.00	0.00	4171.9	0.0	1.4	1.6
36	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	2108.8	17.6	0.00	0.00	4172.0	0.0	1.4	1.6
35	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.10	0.3	2108.2	21.1	0.00	0.00	4174.0	0.0	1.4	1.6
34	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	2196.1	18.3	0.00	0.00	4176.0	0.0	1.2	1.6
33	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	2195.5	18.3	0.00	0.00	4176.1	0.0	1.2	1.6
32	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	2194.7	18.3	0.00	0.00	4176.2	0.0	1.2	1.6
31	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.10	0.3	2194.1	21.9	0.00	0.00	4178.2	0.0	1.2	1.6
30	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	2282.0	19.0	0.00	0.00	4180.3	0.0	1.1	1.5
29	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	2281.4	19.0	0.00	0.00	4180.4	0.0	1.1	1.5
28	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	2280.6	19.0	0.00	0.00	4180.5	0.0	1.1	1.5



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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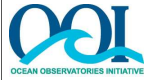
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyps/gp02hyps_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
27	181	1/2" MR	5.0	-15.2	0.100	1.60	0.10	0.1	2280.0	22.8	0.00	0.00	4181.0	0.0	1.1	1.5
26	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	2264.8	18.9	0.00	0.00	4185.5	0.0	1.0	1.6
25	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	2264.1	18.9	0.00	0.00	4185.6	0.0	1.0	1.6
24	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.10	0.0	2263.4	12.6	0.00	0.00	4185.7	0.0	1.0	1.6
23	94	Swivel 5t	0.2	-5.3	0.025	1.20	0.10	0.0	2262.3	22.6	0.00	0.00	4185.9	0.0	1.0	1.6
22	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.10	0.0	2257.0	12.5	0.00	0.00	4186.0	0.0	1.0	1.6
21	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	2255.9	18.8	0.00	0.00	4186.1	0.0	1.0	1.6
20	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.10	0.0	2255.1	12.5	0.00	0.00	4186.2	0.0	1.0	1.6
19	478	Dual Release	1.0	-61.0	0.288	1.20	0.10	0.2	2254.1	22.5	0.00	0.00	4186.8	0.0	1.0	1.6
18	480	1/2" dropchain	0.6	-6.8	0.024	1.60	0.10	0.0	2193.1	13.7	0.00	0.00	4187.6	0.0	0.9	1.6
17	76	ML 17t 1-1/4"	0.2	-4.8	0.026	1.50	0.10	0.0	2186.3	5.0	0.00	0.00	4188.0	0.0	0.9	1.6
16	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.10	0.0	2181.5	9.1	0.00	0.00	4188.2	0.0	0.9	1.6
15	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	2179.9	18.2	0.00	0.00	4188.3	0.0	0.9	1.6
14	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	2179.2	18.2	0.00	0.00	4188.4	0.0	0.9	1.6
13	181	1/2" MR	5.0	-15.2	0.100	1.60	0.10	0.1	2178.5	21.8	0.00	0.00	4188.9	0.0	0.9	1.6
12	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.10	0.0	2163.3	18.0	0.00	0.00	4193.4	0.0	0.8	1.6
11	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.10	0.0	2162.6	9.0	0.00	0.00	4193.5	0.0	0.8	1.6



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyps/gp02hyps_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
10	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.10	0.0	2161.6	9.0	0.00	0.00	4193.6	0.0	0.8	1.6
9	113	Nystron-1"	20.8	-2.0	0.520	1.30	0.10	0.4	2160.1	12.9	0.77	3.86	4194.2	0.0	0.8	1.6
8	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.10	0.0	2158.1	9.0	0.00	0.00	4214.5	0.0	0.2	1.6
7	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.10	0.0	2156.5	9.0	0.00	0.00	4214.6	0.0	0.2	1.7
6	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.10	0.0	2155.5	9.0	0.00	0.00	4214.7	0.0	0.2	1.7
5	183	3/4" MR	5.0	-33.1	0.150	1.60	0.10	0.1	2154.0	9.0	0.00	0.00	4215.2	0.0	0.2	1.7
4	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.10	0.0	2120.9	11.8	0.00	0.00	4219.8	0.0	0.0	1.7
3	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.10	0.0	2119.9	17.7	0.00	0.00	4219.9	0.0	0.0	1.7
2	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.10	0.0	2119.1	8.8	0.00	0.00	4220.0	0.0	0.0	1.7
1	522	double MACE Anch	1.0	-2742.1	1.200	1.20	0.10	0.8	2117.6	35.3	0.00	0.00	4221.0	0.0	0.0	0.0

Max. 36.5% Static Tension at:

124	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.21	0.2	1700.3	36.5	0.04	0.38	310.6	1.8	113.5	0.7
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Vert/Horiz Anchor Load : 2117 kg / 62 kg
Wet MACE Anchor Weight : 2742 kg
Safe MACE Anchor Weight : 2619 kg



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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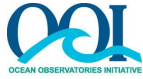
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyperm/gp02hyperm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Parameter

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc]	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
155	416	GSPP Comm. F	0.210	0.210	0.000	0.80	0.80	0.80	0.23	0.5	0.0	0.0	0.0	6.0	0.0	0.0	0.0	4.6
153	130	Data Cable	0.198	0.200	0.025	1.29	1.30	0.02	0.23	0.7	0.0	0.0	-0.1	1.0	0.8	0.0	6.4	9.4
152	130	Data Cable	0.254	0.260	0.055	1.27	1.30	0.02	0.23	0.9	0.0	0.0	-0.2	1.3	1.6	0.0	7.4	14.4
150	415	GSPP Instrum	1.475	1.525	0.387	0.77	0.80	0.77	0.23	3.3	0.0	0.0	-0.8	100.0	2.1	0.0	8.0	14.7
148	124	Data Cable	0.023	0.023	0.001	1.30	1.30	0.02	0.23	0.1	0.0	0.0	-0.0	-0.1	5.4	0.0	107.2	2.9
147	124	Data Cable	0.065	0.065	0.003	1.30	1.30	0.02	0.23	0.2	0.0	0.0	-0.0	-0.1	5.6	0.0	107.1	3.0
145	410	GSPP Winch F	1.539	1.539	1.539	1.20	1.20	4.50	0.23	5.0	0.0	0.0	0.0	440.0	5.7	0.0	107.0	3.1
143	101	3/16" NILSPI	0.321	0.321	0.007	1.10	1.10	0.00	0.22	0.9	0.0	0.0	-0.0	-3.9	11.2	0.0	545.1	1.2
142	101	3/16" NILSPI	0.317	0.317	0.007	1.10	1.10	0.00	0.22	0.8	0.0	0.0	-0.0	-3.9	12.1	0.0	541.2	1.3
141	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	12.5	0.0	539.2	1.3
140	15	coupler ec	0.020	0.020	0.000	1.50	1.50	1.50	0.21	0.1	0.0	0.0	-0.0	-6.0	12.5	0.0	536.8	1.3
138	479	Release Floa	0.592	0.592	0.014	1.20	1.20	0.90	0.21	1.7	0.0	0.0	-0.0	0.0	12.6	0.0	530.8	1.4
137	98	EM Swivel 5t	0.054	0.054	0.001	1.20	1.20	1.20	0.21	0.2	0.0	0.0	-0.0	-8.0	14.3	0.0	530.8	1.5
135	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	14.4	0.0	522.8	1.6
134	256	CF14-1000	0.225	0.225	0.006	0.50	0.50	0.40	0.21	0.3	0.0	0.0	-0.0	13.0	14.4	0.0	520.4	1.6
132	103	5/16" NILSPI	0.095	0.095	0.003	1.10	1.10	0.00	0.21	0.2	0.0	0.0	-0.0	-2.1	14.8	0.0	532.4	1.6
131	337	CTDMO	0.042	0.042	0.001	1.40	1.40	1.00	0.21	0.1	0.0	0.0	-0.0	-2.8	14.9	0.0	531.3	1.6



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc]	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
130	103	5/16" NILSPI	0.095	0.095	0.003	1.10	1.10	0.00	0.21	0.2	0.0	0.0	-0.0	-2.1	15.2	0.0	527.5	1.7
129	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	15.3	0.0	526.3	1.7
128	306	64" Sphere 1	2.087	2.087	2.087	0.50	0.50	0.50	0.21	2.4	0.0	0.0	0.0	1230.0	15.3	0.0	523.9	1.7
127	17	U-Joint	0.090	0.090	0.001	1.50	1.50	1.50	0.21	0.3	0.0	0.0	-0.0	-16.3	17.7	0.0	1753.9	0.6
126	141	1/2" EM chai	1.000	1.000	0.011	1.30	1.30	1.00	0.21	3.0	0.0	0.0	-0.0	-35.0	19.2	0.0	1723.6	0.7
125	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	21.0	0.0	1702.6	0.7
124	103	5/16" NILSPI	0.095	0.095	0.001	1.10	1.10	0.00	0.21	0.2	0.0	0.0	-0.0	-2.1	21.1	0.0	1699.2	0.7
123	339	Wire Profile	0.070	0.070	0.001	0.50	0.50	0.50	0.21	0.1	0.0	0.0	-0.0	-0.5	21.3	0.0	1698.0	0.7
122	103	5/16" NILSPI	4.669	4.670	0.074	1.10	1.10	0.00	0.18	8.9	0.0	0.0	-0.1	-104.4	26.2	0.0	1645.4	1.1
121	103	5/16" NILSPI	4.764	4.765	0.103	1.10	1.10	0.00	0.15	5.8	0.0	0.0	-0.1	-106.5	33.4	0.0	1539.8	1.4
120	340	WFP	0.457	0.457	0.011	0.20	0.20	0.20	0.13	0.1	0.0	0.0	-0.0	0.0	36.1	0.0	1486.4	1.4
119	103	5/16" NILSPI	4.763	4.765	0.128	1.10	1.10	0.00	0.12	4.3	0.0	0.0	-0.1	-106.5	38.4	0.0	1433.2	1.7
118	103	5/16" NILSPI	3.524	3.526	0.110	1.10	1.10	0.00	0.11	2.7	0.0	0.0	-0.1	-78.8	41.9	0.0	1340.5	1.9
117	338	Wire Profile	0.070	0.070	0.002	0.50	0.50	0.50	0.11	0.0	0.0	0.0	-0.0	-0.5	43.2	0.0	1300.9	1.9
116	103	5/16" NILSPI	0.095	0.095	0.003	1.10	1.10	0.00	0.11	0.1	0.0	0.0	-0.0	-2.1	43.2	0.0	1299.4	1.9
115	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-2.4	43.3	0.0	1298.3	1.9
114	215	51" Syntact	1.327	1.327	1.327	0.50	0.50	0.50	0.11	0.4	0.0	0.0	0.0	380.0	43.3	0.0	1295.9	1.9



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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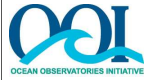
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc]	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
113	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.11	0.0	0.0	0.0	-0.0	-2.4	43.7	0.0	1675.9	1.5
112	103	5/16" NILSPI	0.095	0.095	0.002	1.10	1.10	0.00	0.11	0.1	0.0	0.0	-0.0	-2.1	43.8	0.0	1672.5	1.5
111	339	Wire Profile	0.070	0.070	0.002	0.50	0.50	0.50	0.11	0.0	0.0	0.0	-0.0	-0.5	43.8	0.0	1671.3	1.5
110	103	5/16" NILSPI	4.668	4.670	0.131	1.10	1.10	0.00	0.11	3.2	0.0	0.0	-0.1	-104.4	45.4	0.0	1618.7	1.7
109	103	5/16" NILSPI	4.763	4.765	0.153	1.10	1.10	0.00	0.10	3.0	0.0	0.0	-0.1	-106.5	48.5	0.0	1513.2	2.0
108	340	WFP	0.456	0.457	0.016	0.20	0.20	0.20	0.10	0.1	0.0	0.0	-0.0	0.0	50.0	0.0	1459.8	2.0
107	103	5/16" NILSPI	4.762	4.765	0.175	1.10	1.10	0.00	0.10	2.9	0.0	0.0	-0.1	-106.5	51.6	0.0	1406.6	2.2
105	103	5/16" NILSPI	3.523	3.526	0.145	1.10	1.10	0.00	0.10	2.1	0.0	0.0	-0.1	-78.8	54.1	0.0	1313.8	2.5
104	338	Wire Profile	0.070	0.070	0.003	0.50	0.50	0.50	0.10	0.0	0.0	0.0	-0.0	-0.5	55.1	0.0	1274.3	2.5
103	103	5/16" NILSPI	0.095	0.095	0.004	1.10	1.10	0.00	0.10	0.1	0.0	0.0	-0.0	-2.1	55.2	0.0	1272.8	2.5
102	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-2.4	55.2	0.0	1271.6	2.5
101	300	Load Cage	0.300	0.300	0.013	1.30	1.30	0.90	0.10	0.2	0.0	0.0	-0.0	-60.0	55.2	0.0	1269.2	2.5
100	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	55.4	0.0	1209.2	2.6
99	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	55.4	0.0	1208.6	2.6
98	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	55.5	0.0	1207.8	2.6
97	181	1/2" MR	0.100	0.100	0.005	1.60	1.60	1.00	0.10	0.1	0.0	0.0	-0.0	-15.2	55.5	0.0	1201.1	2.7
96	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	55.5	0.0	1192.0	2.7



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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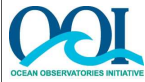
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
95	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	55.6	0.0	1191.3	2.7
94	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	55.6	0.0	1190.6	2.7
93	274	HR17-4 seria	0.999	1.000	0.047	0.60	0.60	1.06	0.10	0.3	0.0	0.0	-0.0	88.0	55.6	0.0	1189.9	2.7
92	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	55.9	0.0	1277.9	2.5
91	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	55.9	0.0	1277.2	2.5
90	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	55.9	0.0	1276.5	2.5
89	274	HR17-4 seria	0.999	1.000	0.044	0.60	0.60	1.06	0.10	0.3	0.0	0.0	-0.0	88.0	55.9	0.0	1275.8	2.5
88	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	56.2	0.0	1363.8	2.4
87	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	56.2	0.0	1363.1	2.4
86	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	56.3	0.0	1362.4	2.4
85	103	5/16" NILSPI	0.095	0.095	0.004	1.10	1.10	0.00	0.10	0.1	0.0	0.0	-0.0	-2.1	56.3	0.0	1360.8	2.4
84	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.10	0.4	0.0	0.0	0.0	0.0	56.3	0.0	1359.6	2.4
83	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	56.7	0.0	1359.6	2.4
82	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	56.7	0.0	1358.9	2.4
81	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	56.7	0.0	1358.2	2.4
80	103	5/16" NILSPI	0.190	0.191	0.008	1.10	1.10	0.00	0.10	0.1	0.0	0.0	-0.0	-4.3	56.8	0.0	1355.5	2.4
79	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.10	0.4	0.0	0.0	0.0	0.0	56.9	0.0	1353.3	2.4



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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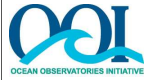
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
78	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	57.3	0.0	1353.3	2.4
77	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	57.3	0.0	1352.6	2.4
76	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	57.3	0.0	1351.9	2.4
75	181	1/2" MR	0.100	0.100	0.004	1.60	1.60	1.00	0.10	0.1	0.0	0.0	-0.0	-15.2	57.3	0.0	1345.1	2.5
74	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	57.4	0.0	1336.0	2.5
73	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	57.4	0.0	1335.4	2.5
72	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	57.4	0.0	1334.6	2.5
71	274	HR17-4 seria	0.999	1.000	0.043	0.60	0.60	1.06	0.10	0.3	0.0	0.0	-0.0	88.0	57.4	0.0	1334.0	2.5
70	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	57.7	0.0	1421.9	2.3
69	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	57.7	0.0	1421.3	2.3
68	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	57.7	0.0	1420.5	2.3
67	274	HR17-4 seria	0.999	1.000	0.041	0.60	0.60	1.06	0.10	0.3	0.0	0.0	-0.0	88.0	57.7	0.0	1419.9	2.3
66	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	58.1	0.0	1507.9	2.2
65	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	58.1	0.0	1507.2	2.2
64	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	58.1	0.0	1506.5	2.2
63	274	HR17-4 seria	0.999	1.000	0.039	0.60	0.60	1.06	0.10	0.3	0.0	0.0	-0.0	88.0	58.1	0.0	1505.8	2.2
62	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	58.4	0.0	1593.8	2.1



OOI Global PAPA Hybrid Profiler Mooring
 designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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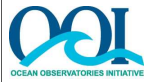
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
61	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	58.4	0.0	1593.1	2.1
60	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	58.4	0.0	1592.4	2.1
59	274	HR17-4 seria	0.999	1.000	0.037	0.60	0.60	1.06	0.10	0.3	0.0	0.0	-0.0	88.0	58.4	0.0	1591.7	2.1
58	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	58.8	0.0	1679.7	2.0
57	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	58.8	0.0	1679.1	2.0
56	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	58.8	0.0	1678.3	2.0
55	274	HR17-4 seria	0.999	1.000	0.035	0.60	0.60	1.06	0.10	0.3	0.0	0.0	-0.0	88.0	58.8	0.0	1677.7	2.0
54	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	59.1	0.0	1765.6	1.9
53	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	59.1	0.0	1765.0	1.9
52	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	59.1	0.0	1764.2	1.9
51	274	HR17-4 seria	0.999	1.000	0.034	0.60	0.60	1.06	0.10	0.3	0.0	0.0	-0.0	88.0	59.1	0.0	1763.6	1.9
50	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	59.5	0.0	1851.6	1.8
49	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	59.5	0.0	1850.9	1.8
48	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	59.5	0.0	1850.2	1.8
47	274	HR17-4 seria	0.999	1.000	0.032	0.60	0.60	1.06	0.10	0.3	0.0	0.0	-0.0	88.0	59.5	0.0	1849.5	1.8
46	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	59.8	0.0	1937.5	1.8
45	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	59.8	0.0	1936.8	1.8



OOI Global PAPA Hybrid Profiler Mooring
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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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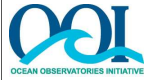
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
44	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	59.8	0.0	1936.1	1.8
43	274	HR17-4 seria	1.000	1.000	0.031	0.60	0.60	1.06	0.10	0.3	0.0	0.0	-0.0	88.0	59.8	0.0	1935.4	1.8
42	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	60.1	0.0	2023.4	1.7
41	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	60.2	0.0	2022.8	1.7
40	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	60.2	0.0	2022.0	1.7
39	274	HR17-4 seria	1.000	1.000	0.030	0.60	0.60	1.06	0.10	0.3	0.0	0.0	-0.0	88.0	60.2	0.0	2021.4	1.7
38	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	60.5	0.0	2109.3	1.6
37	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	60.5	0.0	2108.7	1.6
36	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	60.5	0.0	2107.9	1.6
35	274	HR17-4 seria	1.000	1.000	0.029	0.60	0.60	1.06	0.10	0.3	0.0	0.0	-0.0	88.0	60.5	0.0	2107.3	1.6
34	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	60.8	0.0	2195.3	1.6
33	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	60.8	0.0	2194.6	1.6
32	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	60.9	0.0	2193.9	1.6
31	274	HR17-4 seria	1.000	1.000	0.028	0.60	0.60	1.06	0.10	0.3	0.0	0.0	-0.0	88.0	60.9	0.0	2193.2	1.6
30	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	61.2	0.0	2281.2	1.5
29	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	61.2	0.0	2280.5	1.5
28	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	61.2	0.0	2279.8	1.5



OOI Global PAPA Hybrid Profiler Mooring
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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
27	181	1/2" MR	0.100	0.100	0.003	1.60	1.60	1.00	0.10	0.1	0.0	0.0	-0.0	-15.2	61.2	0.0	2273.1	1.5
26	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	61.3	0.0	2263.9	1.6
25	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	61.3	0.0	2263.3	1.6
24	33	AS 5t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-1.1	61.3	0.0	2262.5	1.6
23	94	Swivel 5t	0.025	0.025	0.001	1.20	1.20	1.20	0.10	0.0	0.0	0.0	-0.0	-5.3	61.3	0.0	2261.5	1.6
22	33	AS 5t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-1.1	61.3	0.0	2256.1	1.6
21	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	61.3	0.0	2255.1	1.6
20	33	AS 5t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-1.1	61.3	0.0	2254.3	1.6
19	478	Dual Release	0.288	0.288	0.008	1.20	1.20	0.90	0.10	0.2	0.0	0.0	-0.0	-61.0	61.4	0.0	2253.2	1.6
18	480	1/2" dropcha	0.024	0.024	0.001	1.60	1.60	1.00	0.10	0.0	0.0	0.0	-0.0	-6.8	61.5	0.0	2192.2	1.6
17	76	ML 17t 1-1/4	0.025	0.026	0.001	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-4.8	61.6	0.0	2185.4	1.6
16	34	AS 6t 7/8"	0.012	0.012	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-1.6	61.6	0.0	2180.6	1.6
15	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	61.6	0.0	2179.0	1.6
14	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	61.6	0.0	2178.3	1.6
13	181	1/2" MR	0.100	0.100	0.003	1.60	1.60	1.00	0.10	0.1	0.0	0.0	-0.0	-15.2	61.6	0.0	2171.5	1.6
12	32	AS 3t 5/8"	0.006	0.006	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	61.7	0.0	2162.4	1.6
11	64	EL 6t 7/8"	0.012	0.012	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-1.0	61.7	0.0	2161.8	1.6



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #001 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
10	34	AS 6t 7/8"	0.012	0.012	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-1.6	61.7	0.0	2160.7	1.6
9	113	Nystron-1"	0.520	0.520	0.015	1.30	1.30	0.02	0.10	0.4	0.0	0.0	-0.0	-2.0	61.9	0.0	2158.2	1.6
8	34	AS 6t 7/8"	0.012	0.012	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-1.6	62.1	0.0	2157.2	1.6
7	64	EL 6t 7/8"	0.012	0.012	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-1.0	62.1	0.0	2155.7	1.7
6	34	AS 6t 7/8"	0.012	0.012	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-1.6	62.1	0.0	2154.6	1.7
5	183	3/4" MR	0.150	0.150	0.004	1.60	1.60	1.00	0.10	0.1	0.0	0.0	-0.0	-33.0	62.2	0.0	2139.8	1.7
4	33	AS 5t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-1.1	62.2	0.0	2120.0	1.7
3	53	PL 3t 3/4"	0.010	0.010	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-0.7	62.3	0.0	2118.9	1.7
2	34	AS 6t 7/8"	0.012	0.012	0.000	1.50	1.50	1.50	0.10	0.0	0.0	0.0	-0.0	-1.6	62.3	0.0	2118.2	1.7
1	522	double MACE	1.200	1.200	0.000	1.20	1.20	1.20	0.10	0.8	0.0	0.0	0.0	-2742.1	62.3	0.0	2116.6	0.0



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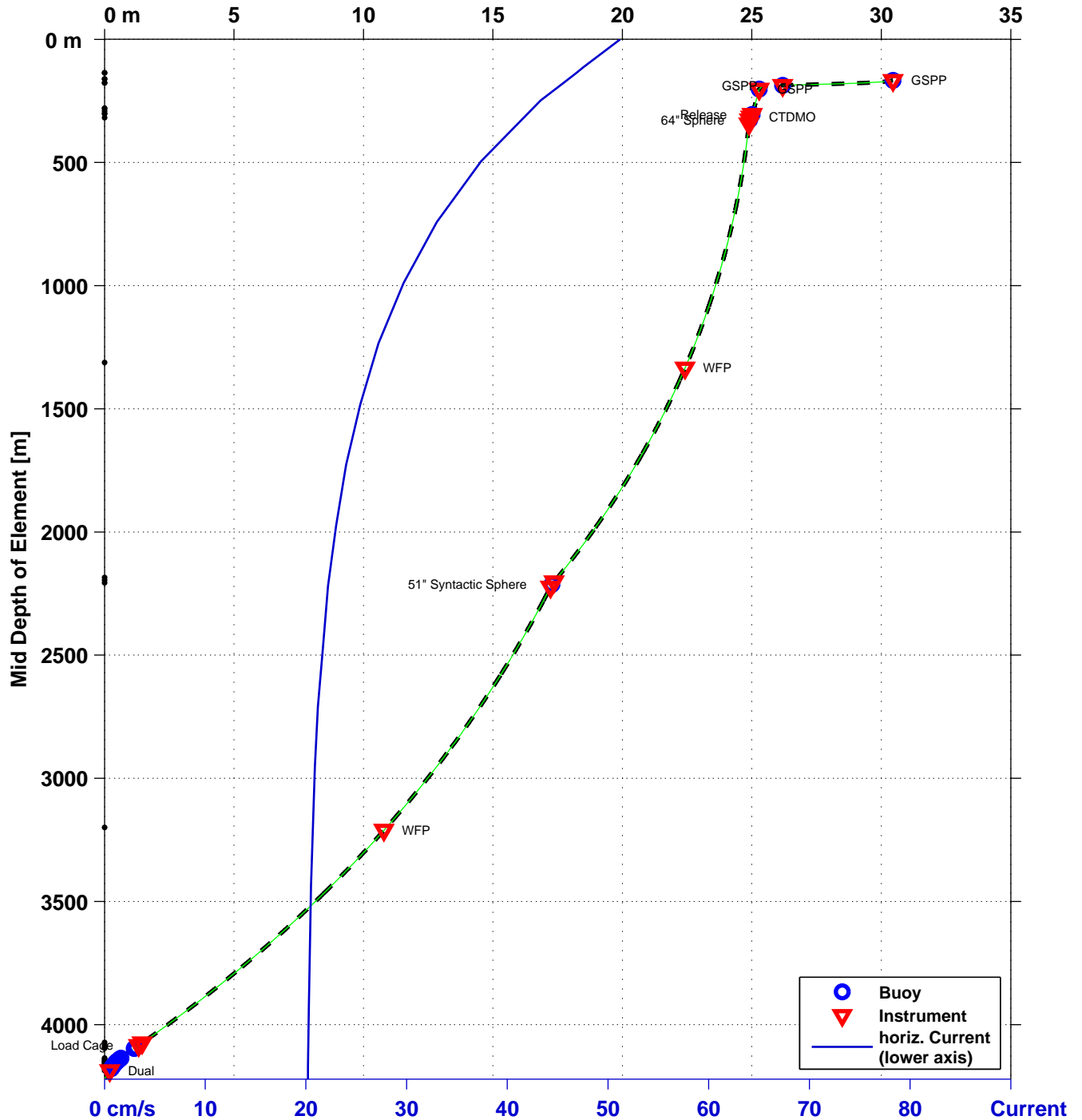


By: M. Lankhorst 27-Jan-2014 DCN: 3203-00010 REV: B REF.DES. GP02HYPM

Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:48, mlankhorst@sendlab01(GLNX86)

Event #002 – Subduction [m]: max. 30m, Top at 167m
 Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf



Event #002: Vert / Horiz anchor load: 2095 kg / 236 kg
 Vert / Horiz anchor safety : 125 % / 120 %,
 Safe Wet MACE anchor weight: 2619 kg, (max. 500 kg or Horiz. safety)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



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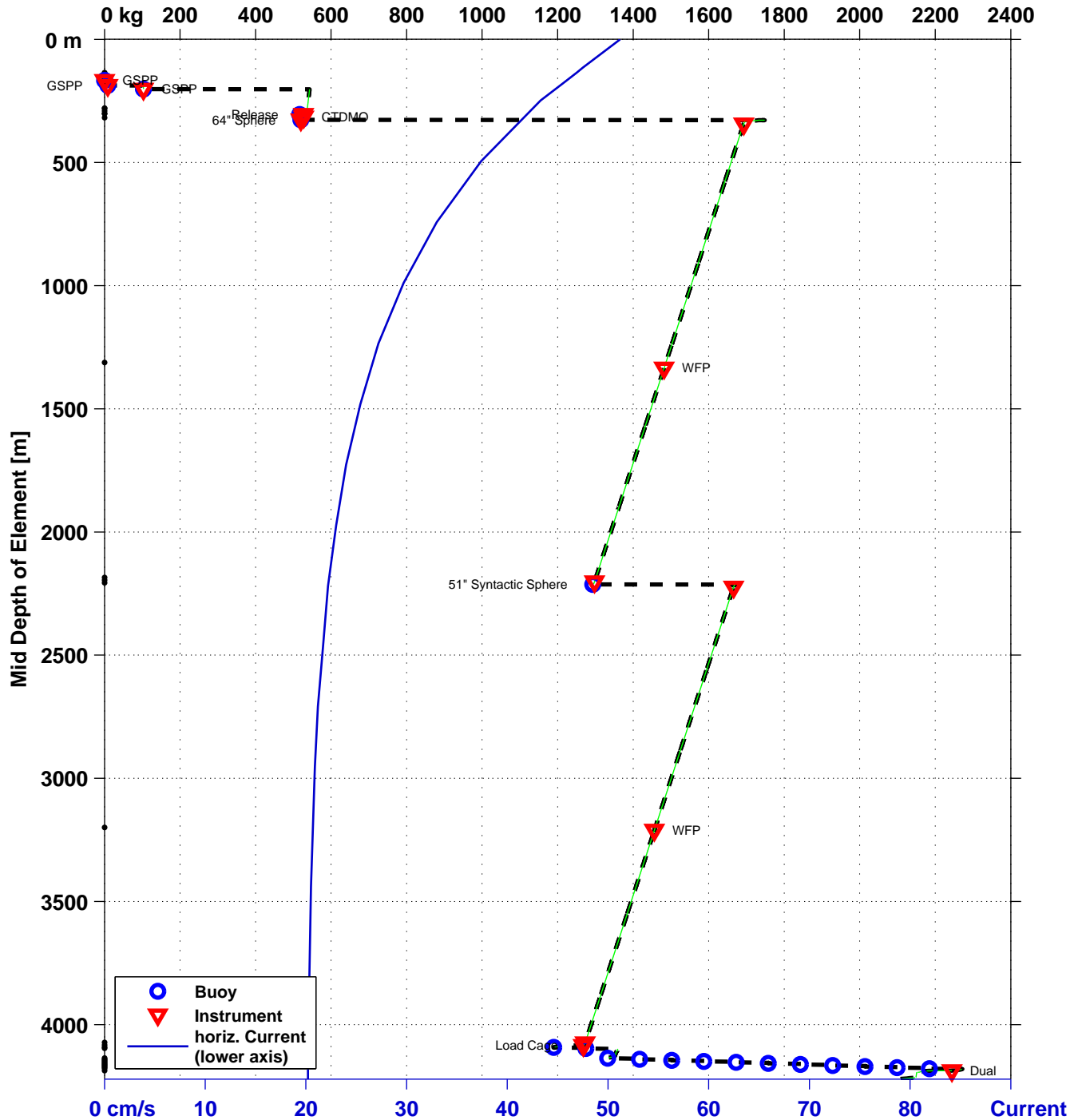
By: M. Lankhorst 27-Jan-2014 DCN: 3203-00010 REV: B REF.DES. GP02HYPM

Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

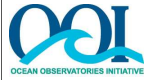
Author: 27-Jan-2014 11:31:48, mlankhorst@sendlab01(GLNX86)

Event #002 – Tension [kg]

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf



Event #002: Vert / Horiz anchor load: 2095 kg / 236 kg
 Vert / Horiz anchor safety : 125 % / 120 %,
 Safe Wet MACE anchor weight: 2619 kg, (max. 500 kg or Horiz. safety)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Result

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
155	416	GSPP Comm. Float	1.5	6.0	0.210	0.80	0.46	1.9	0.0	0.0	0.00	0.00	165.9	30.5	451.3	17.2
153	130	Data Cable w/	10.0	1.0	0.200	1.30	0.46	2.3	7.2	0.4	0.00	0.01	167.8	30.4	450.8	33.2
152	130	Data Cable w/	13.0	1.3	0.260	1.30	0.45	2.1	8.5	0.4	0.00	0.01	176.8	29.4	446.5	45.7
150	415	GSPP Instrument	2.5	100.0	1.525	0.80	0.45	7.5	8.6	0.1	0.00	0.00	187.3	26.2	438.0	46.3
148	124	Data Cable	3.5	-0.1	0.023	1.30	0.45	0.3	103.3	5.2	0.00	0.14	188.3	25.4	436.2	7.8
147	124	Data Cable	10.0	-0.1	0.065	1.30	0.45	0.9	103.2	5.2	0.01	0.14	191.8	25.4	435.8	8.3
145	410	GSPP Winch Float	1.8	440.0	1.539	1.20	0.45	19.4	103.1	1.0	0.00	0.00	202.1	25.3	434.4	8.3
143	101	3/16" NILSPIN	50.7	-3.9	0.321	1.10	0.44	3.5	543.1	29.9	0.15	0.30	203.5	25.3	434.1	4.0
142	101	3/16" NILSPIN	50.1	-3.9	0.317	1.10	0.43	3.3	539.2	29.7	0.15	0.30	254.0	25.2	430.7	4.4
141	13	ind. term	0.1	-2.4	0.005	1.50	0.42	0.1	535.3	3.3	0.00	0.00	303.6	25.0	427.0	4.4
140	15	coupler ec	0.2	-6.0	0.020	1.50	0.42	0.3	532.9	3.3	0.00	0.00	303.7	25.0	427.0	4.4
138	479	Release Float	1.0	0.0	0.592	1.20	0.42	6.6	527.0	5.3	0.00	0.00	304.3	25.0	427.0	4.5
137	98	EM Swivel 5t	0.6	-8.0	0.054	1.20	0.42	0.6	527.0	3.5	0.00	0.00	305.1	25.0	426.9	5.2
135	13	ind. term	0.1	-2.4	0.005	1.50	0.42	0.1	519.1	3.2	0.00	0.00	305.5	25.0	426.9	5.4
134	256	CF14-1000	0.0	13.0	0.225	0.50	0.42	1.1	516.7	8.6	0.00	0.00	305.5	25.0	426.9	5.4
132	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.42	0.9	529.6	11.4	0.01	0.12	306.0	25.0	426.9	5.5
131	337	CTDMO	0.0	-2.8	0.042	1.40	0.42	0.5	527.5	5.3	0.00	0.00	315.5	25.0	425.9	5.5



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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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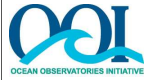
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
130	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.42	0.9	524.7	11.3	0.01	0.12	316.0	25.0	425.9	5.7
129	13	ind. term	0.1	-2.4	0.005	1.50	0.41	0.1	522.6	3.3	0.00	0.00	325.5	24.9	424.9	5.7
128	306	64" Sphere 1000m	2.2	1230.0	2.087	0.50	0.41	9.4	520.2	5.2	0.00	0.00	326.7	24.9	424.9	5.8
127	17	U-Joint	0.3	-16.3	0.090	1.50	0.41	1.2	1748.7	10.9	0.00	0.00	327.9	24.9	424.7	2.0
126	141	1/2" EM chain	5.0	-35.0	1.000	1.30	0.41	11.6	1732.4	17.3	0.00	0.00	328.6	24.9	424.7	2.4
125	13	ind. term	0.1	-2.4	0.005	1.50	0.41	0.1	1697.4	10.6	0.00	0.00	333.1	24.9	424.5	2.5
124	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.41	0.9	1695.0	36.4	0.04	0.38	333.7	24.9	424.5	2.6
123	339	Wire Profiler St	0.0	-0.5	0.070	0.50	0.41	0.3	1692.9	28.2	0.00	0.00	343.2	24.9	424.0	2.6
122	103	5/16" NILSPIN	491.8	-104.4	4.670	1.10	0.36	34.7	1692.4	36.4	1.78	0.36	343.7	24.9	424.0	4.0
121	103	5/16" NILSPIN	501.7	-106.5	4.765	1.10	0.29	22.7	1588.2	34.1	1.70	0.34	834.7	24.0	395.6	5.2
120	340	WFP	0.0	0.0	0.457	0.20	0.26	0.3	1482.0	14.8	0.00	0.00	1334.2	22.4	355.4	5.2
119	103	5/16" NILSPIN	501.6	-106.5	4.765	1.10	0.25	16.8	1482.0	31.9	1.58	0.32	1334.7	22.4	355.4	6.3
118	103	5/16" NILSPIN	371.1	-78.8	3.526	1.10	0.23	10.5	1376.1	29.6	1.10	0.30	1833.8	19.9	305.4	7.1
117	338	Wire Profiler St	0.0	-0.5	0.070	0.50	0.22	0.1	1297.8	21.6	0.00	0.00	2201.9	17.4	262.1	7.1
116	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.22	0.3	1297.3	27.9	0.03	0.29	2202.4	17.4	262.1	7.2
115	13	ind. term	0.1	-2.4	0.005	1.50	0.22	0.0	1295.2	8.1	0.00	0.00	2211.9	17.3	260.8	7.2
114	215	51" Syntactic S	1.5	380.0	1.327	0.50	0.22	1.7	1292.8	12.9	0.00	0.00	2212.7	17.3	260.8	7.2



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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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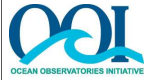
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Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
113	13	ind. term	0.1	-2.4	0.005	1.50	0.22	0.0	1670.7	10.4	0.00	0.00	2213.5	17.3	260.6	5.6
112	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.22	0.3	1668.3	35.9	0.04	0.37	2214.0	17.3	260.6	5.6
111	339	Wire Profiler St	0.0	-0.5	0.070	0.50	0.22	0.1	1666.2	27.8	0.00	0.00	2223.5	17.2	259.7	5.6
110	103	5/16" NILSPIN	491.8	-104.4	4.670	1.10	0.22	12.6	1665.7	35.8	1.75	0.36	2224.0	17.2	259.7	6.5
109	103	5/16" NILSPIN	501.7	-106.5	4.765	1.10	0.21	11.9	1561.9	33.6	1.67	0.33	2713.0	14.5	207.8	7.4
108	340	WFP	0.0	0.0	0.457	0.20	0.21	0.2	1456.2	14.6	0.00	0.00	3210.5	10.8	147.3	7.4
107	103	5/16" NILSPIN	501.6	-106.5	4.765	1.10	0.21	11.4	1456.2	31.3	1.56	0.31	3211.0	10.8	147.3	8.5
105	103	5/16" NILSPIN	371.1	-78.8	3.526	1.10	0.20	8.2	1350.8	29.0	1.08	0.29	3707.7	6.0	77.9	9.4
104	338	Wire Profiler St	0.0	-0.5	0.070	0.50	0.20	0.1	1272.9	21.2	0.00	0.00	4073.8	1.5	20.3	9.4
103	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.20	0.2	1272.4	27.3	0.03	0.28	4074.3	1.5	20.3	9.4
102	13	ind. term	0.1	-2.4	0.005	1.50	0.20	0.0	1270.3	7.9	0.00	0.00	4083.8	1.3	18.7	9.4
101	300	Load Cage	1.5	-60.0	0.300	1.30	0.20	0.9	1268.0	12.7	0.00	0.00	4084.6	1.3	18.6	9.4
100	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1208.8	10.1	0.00	0.00	4085.3	1.3	18.4	10.0
99	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	1208.2	10.1	0.00	0.00	4085.4	1.3	18.4	10.0
98	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1207.5	10.1	0.00	0.00	4085.5	1.3	18.4	10.0
97	181	1/2" MR	5.0	-15.2	0.100	1.60	0.20	0.3	1206.8	12.1	0.00	0.00	4086.0	1.3	18.3	10.1
96	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1191.8	9.9	0.00	0.00	4090.5	1.2	17.5	10.1



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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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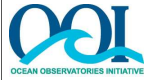
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
95	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	1191.2	9.9	0.00	0.00	4090.6	1.2	17.5	10.1
94	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1190.5	9.9	0.00	0.00	4090.7	1.2	17.4	10.1
93	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.20	1.3	1189.8	11.9	0.00	0.00	4092.7	1.2	17.4	10.1
92	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1276.5	10.6	0.00	0.00	4094.7	1.2	16.7	9.5
91	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	1275.9	10.6	0.00	0.00	4094.8	1.1	16.7	9.5
90	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1275.2	10.6	0.00	0.00	4094.8	1.1	16.7	9.5
89	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.20	1.3	1274.5	12.7	0.00	0.00	4096.9	1.1	16.7	9.5
88	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1361.4	11.3	0.00	0.00	4098.8	1.1	16.0	9.0
87	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	1360.7	11.3	0.00	0.00	4098.9	1.1	16.0	9.0
86	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1360.0	11.3	0.00	0.00	4099.0	1.1	16.0	9.0
85	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.20	0.2	1359.3	29.2	0.03	0.30	4099.6	1.1	16.0	9.0
84	491	Parachute	0.0	0.0	1.500	0.50	0.20	1.6	1357.2	13.6	0.00	0.00	4109.0	1.0	14.4	9.0
83	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1357.5	11.3	0.00	0.00	4109.0	1.0	14.4	9.1
82	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	1356.8	11.3	0.00	0.00	4109.1	1.0	14.4	9.1
81	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1356.1	11.3	0.00	0.00	4109.2	1.0	14.4	9.1
80	103	5/16" NILSPIN	20.1	-4.3	0.191	1.10	0.20	0.4	1355.5	29.1	0.06	0.30	4109.7	1.0	14.4	9.1
79	491	Parachute	0.0	0.0	1.500	0.50	0.20	1.6	1351.3	13.5	0.00	0.00	4129.0	0.7	11.2	9.1



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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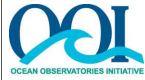
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyperm/gp02hyperm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	Tension [%]	Stretch [m]	Stretch [%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
78	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1351.5	11.3	0.00	0.00	4129.0	0.7	11.2	9.2
77	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	1350.9	11.3	0.00	0.00	4129.1	0.7	11.2	9.2
76	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1350.1	11.3	0.00	0.00	4129.2	0.7	11.2	9.2
75	181	1/2" MR	5.0	-15.2	0.100	1.60	0.20	0.3	1349.5	13.5	0.00	0.00	4129.8	0.7	11.2	9.3
74	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1334.5	11.1	0.00	0.00	4134.2	0.6	10.4	9.3
73	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	1333.8	11.1	0.00	0.00	4134.3	0.6	10.4	9.3
72	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1333.1	11.1	0.00	0.00	4134.4	0.6	10.3	9.4
71	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.20	1.3	1332.5	13.3	0.00	0.00	4136.4	0.6	10.3	9.4
70	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1419.4	11.8	0.00	0.00	4138.4	0.6	9.7	8.8
69	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	1418.7	11.8	0.00	0.00	4138.5	0.6	9.7	8.8
68	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1418.0	11.8	0.00	0.00	4138.6	0.6	9.6	8.8
67	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.20	1.3	1417.3	14.2	0.00	0.00	4140.6	0.6	9.6	8.9
66	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1504.3	12.5	0.00	0.00	4142.6	0.5	9.0	8.4
65	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	1503.7	12.5	0.00	0.00	4142.7	0.5	9.0	8.4
64	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1503.0	12.5	0.00	0.00	4142.8	0.5	9.0	8.4
63	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.20	1.3	1502.3	15.0	0.00	0.00	4144.8	0.5	9.0	8.4
62	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1589.4	13.2	0.00	0.00	4146.8	0.5	8.4	8.0



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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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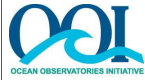
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
61	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	1588.8	13.2	0.00	0.00	4146.9	0.5	8.4	8.0
60	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1588.0	13.2	0.00	0.00	4147.0	0.5	8.4	8.0
59	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.20	1.3	1587.4	15.9	0.00	0.00	4149.0	0.5	8.4	8.0
58	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1674.6	14.0	0.00	0.00	4151.0	0.4	7.8	7.6
57	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	1673.9	13.9	0.00	0.00	4151.1	0.4	7.8	7.6
56	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1673.2	13.9	0.00	0.00	4151.2	0.4	7.8	7.6
55	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.20	1.3	1672.5	16.7	0.00	0.00	4153.2	0.4	7.8	7.6
54	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1759.8	14.7	0.00	0.00	4155.2	0.4	7.2	7.3
53	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	1759.1	14.7	0.00	0.00	4155.3	0.4	7.2	7.3
52	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1758.4	14.7	0.00	0.00	4155.4	0.4	7.2	7.3
51	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.20	1.3	1757.8	17.6	0.00	0.00	4157.4	0.4	7.2	7.3
50	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1845.1	15.4	0.00	0.00	4159.4	0.4	6.7	7.0
49	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	1844.4	15.4	0.00	0.00	4159.5	0.4	6.7	7.0
48	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1843.7	15.4	0.00	0.00	4159.6	0.4	6.7	7.0
47	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.20	1.3	1843.0	18.4	0.00	0.00	4161.6	0.4	6.7	7.0
46	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1930.4	16.1	0.00	0.00	4163.6	0.3	6.2	6.7
45	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	1929.8	16.1	0.00	0.00	4163.7	0.3	6.2	6.7



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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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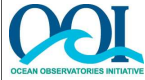
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyperm/gp02hyperm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
44	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	1929.0	16.1	0.00	0.00	4163.8	0.3	6.2	6.7
43	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.20	1.3	1928.4	19.3	0.00	0.00	4165.8	0.3	6.2	6.7
42	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	2015.8	16.8	0.00	0.00	4167.8	0.3	5.7	6.5
41	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	2015.1	16.8	0.00	0.00	4167.9	0.3	5.7	6.5
40	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	2014.4	16.8	0.00	0.00	4168.0	0.3	5.7	6.5
39	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.20	1.3	2013.7	20.1	0.00	0.00	4170.1	0.3	5.7	6.5
38	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	2101.2	17.5	0.00	0.00	4172.1	0.3	5.2	6.3
37	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	2100.5	17.5	0.00	0.00	4172.1	0.3	5.2	6.3
36	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	2099.8	17.5	0.00	0.00	4172.2	0.3	5.2	6.3
35	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.20	1.3	2099.1	21.0	0.00	0.00	4174.3	0.3	5.2	6.3
34	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	2186.6	18.2	0.00	0.00	4176.3	0.3	4.7	6.1
33	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	2186.0	18.2	0.00	0.00	4176.4	0.3	4.7	6.1
32	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	2185.3	18.2	0.00	0.00	4176.5	0.3	4.7	6.1
31	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.20	1.3	2184.6	21.8	0.00	0.00	4178.5	0.3	4.7	6.1
30	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	2272.1	18.9	0.00	0.00	4180.5	0.2	4.3	5.9
29	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	2271.5	18.9	0.00	0.00	4180.6	0.2	4.3	5.9
28	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	2270.7	18.9	0.00	0.00	4180.7	0.2	4.3	5.9



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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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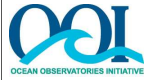
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyps/gp02hyps_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
27	181	1/2" MR	5.0	-15.2	0.100	1.60	0.20	0.3	2270.1	22.7	0.00	0.00	4181.2	0.2	4.3	5.9
26	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	2255.0	18.8	0.00	0.00	4185.7	0.2	3.8	5.9
25	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	2254.3	18.8	0.00	0.00	4185.8	0.2	3.8	5.9
24	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.20	0.0	2253.6	12.5	0.00	0.00	4185.9	0.2	3.7	5.9
23	94	Swivel 5t	0.2	-5.3	0.025	1.20	0.20	0.1	2252.5	22.5	0.00	0.00	4186.0	0.2	3.7	5.9
22	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.20	0.0	2247.2	12.5	0.00	0.00	4186.2	0.2	3.7	5.9
21	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	2246.1	18.7	0.00	0.00	4186.3	0.2	3.7	5.9
20	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.20	0.0	2245.4	12.5	0.00	0.00	4186.4	0.2	3.7	5.9
19	478	Dual Release	1.0	-61.0	0.288	1.20	0.20	0.8	2244.3	22.4	0.00	0.00	4187.0	0.2	3.7	5.9
18	480	1/2" dropchain	0.6	-6.8	0.024	1.60	0.20	0.1	2183.7	13.6	0.00	0.00	4187.8	0.2	3.6	6.1
17	76	ML 17t 1-1/4"	0.2	-4.8	0.026	1.50	0.20	0.1	2176.9	4.9	0.00	0.00	4188.2	0.2	3.5	6.2
16	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.20	0.0	2172.1	9.1	0.00	0.00	4188.3	0.2	3.5	6.2
15	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	2170.5	18.1	0.00	0.00	4188.4	0.2	3.5	6.2
14	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	2169.8	18.1	0.00	0.00	4188.5	0.2	3.5	6.2
13	181	1/2" MR	5.0	-15.2	0.100	1.60	0.20	0.3	2169.1	21.7	0.00	0.00	4189.1	0.2	3.5	6.2
12	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.20	0.0	2154.0	18.0	0.00	0.00	4193.6	0.2	2.9	6.2
11	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.20	0.0	2153.4	9.0	0.00	0.00	4193.7	0.2	2.9	6.2



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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyps/gp02hyps_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
10	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.20	0.0	2152.4	9.0	0.00	0.00	4193.8	0.2	2.9	6.2
9	113	Nystron-1"	20.8	-2.0	0.520	1.30	0.20	1.5	2150.8	12.8	0.77	3.84	4194.3	0.2	2.9	6.3
8	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.20	0.0	2148.9	9.0	0.00	0.00	4214.5	0.0	0.6	6.3
7	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.20	0.0	2147.3	8.9	0.00	0.00	4214.6	0.0	0.6	6.3
6	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.20	0.0	2146.3	8.9	0.00	0.00	4214.7	0.0	0.6	6.3
5	183	3/4" MR	5.0	-33.1	0.150	1.60	0.20	0.5	2144.7	8.9	0.00	0.00	4215.3	0.0	0.6	6.4
4	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.20	0.0	2111.9	11.7	0.00	0.00	4219.8	0.0	0.0	6.4
3	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.20	0.0	2110.8	17.6	0.00	0.00	4219.9	0.0	0.0	6.4
2	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.20	0.0	2110.1	8.8	0.00	0.00	4220.0	0.0	0.0	6.4
1	522	double MACE Anch	1.0	-2742.1	1.200	1.20	0.20	3.1	2108.6	35.1	0.00	0.00	4221.0	0.0	0.0	0.0

Max. 36.4% Static Tension at:

124	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.41	0.9	1695.0	36.4	0.04	0.38	333.7	24.9	424.5	2.6
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Vert/Horiz Anchor Load : 2095 kg / 236 kg
Wet MACE Anchor Weight : 2742 kg
Safe MACE Anchor Weight : 2619 kg



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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Parameter

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc]	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
155	416	GSPP Comm. F	0.210	0.210	0.000	0.80	0.80	0.80	0.46	1.9	0.0	0.0	0.0	6.0	0.0	0.0	0.0	17.2
153	130	Data Cable	0.179	0.200	0.087	1.17	1.30	0.02	0.46	2.3	0.0	0.0	-1.0	1.0	2.9	0.0	6.0	33.2
152	130	Data Cable	0.197	0.260	0.169	0.98	1.30	0.02	0.45	2.1	0.0	0.0	-1.4	1.3	5.2	0.0	6.0	45.7
150	415	GSPP Instrum	1.053	1.525	1.103	0.55	0.80	0.55	0.45	7.5	0.0	0.0	-3.6	100.0	6.2	0.0	6.0	46.3
148	124	Data Cable	0.023	0.023	0.003	1.29	1.30	0.02	0.45	0.3	0.0	0.0	-0.0	-0.1	13.9	0.0	102.3	7.8
147	124	Data Cable	0.064	0.065	0.009	1.29	1.30	0.02	0.45	0.9	0.0	0.0	-0.1	-0.1	14.5	0.0	102.1	8.3
145	410	GSPP Winch F	1.539	1.539	1.539	1.20	1.20	4.50	0.45	19.4	0.0	0.0	0.0	440.0	14.9	0.0	102.0	8.3
143	101	3/16" NILSPI	0.320	0.321	0.021	1.09	1.10	0.00	0.44	3.5	0.0	0.0	-0.2	-3.9	36.1	0.0	540.0	4.0
142	101	3/16" NILSPI	0.317	0.317	0.023	1.09	1.10	0.00	0.43	3.3	0.0	0.0	-0.2	-3.9	39.5	0.0	535.8	4.4
141	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	41.2	0.0	533.8	4.4
140	15	coupler ec	0.020	0.020	0.002	1.50	1.50	1.50	0.42	0.3	0.0	0.0	-0.0	-6.0	41.2	0.0	531.3	4.4
138	479	Release Floa	0.590	0.592	0.047	1.20	1.20	0.90	0.42	6.6	0.0	0.0	-0.5	0.0	41.5	0.0	525.3	4.5
137	98	EM Swivel 5t	0.054	0.054	0.005	1.19	1.20	1.19	0.42	0.6	0.0	0.0	-0.1	-8.0	48.1	0.0	524.8	5.2
135	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	48.7	0.0	516.8	5.4
134	256	CF14-1000	0.224	0.225	0.021	0.50	0.50	0.40	0.42	1.1	0.0	0.0	-0.1	13.0	48.8	0.0	514.4	5.4
132	103	5/16" NILSPI	0.095	0.095	0.009	1.09	1.10	0.00	0.42	0.9	0.0	0.0	-0.1	-2.1	50.3	0.0	526.3	5.5
131	337	CTDMO	0.042	0.042	0.004	1.39	1.40	1.00	0.42	0.5	0.0	0.0	-0.1	-2.8	50.8	0.0	525.0	5.5



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc]	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
130	103	5/16" NILSPI	0.095	0.095	0.009	1.09	1.10	0.00	0.42	0.9	0.0	0.0	-0.1	-2.1	51.7	0.0	521.2	5.7
129	13	ind. term	0.005	0.005	0.000	1.49	1.50	1.49	0.41	0.1	0.0	0.0	-0.0	-2.4	52.3	0.0	520.0	5.7
128	306	64" Sphere 1	2.087	2.087	2.087	0.50	0.50	0.50	0.41	9.4	0.0	0.0	0.0	1230.0	52.3	0.0	517.6	5.8
127	17	U-Joint	0.090	0.090	0.003	1.50	1.50	1.50	0.41	1.2	0.0	0.0	-0.0	-16.3	61.7	0.0	1747.6	2.0
126	141	1/2" EM chai	0.999	1.000	0.039	1.30	1.30	1.00	0.41	11.6	0.0	0.0	-0.5	-35.0	67.6	0.0	1717.0	2.4
125	13	ind. term	0.005	0.005	0.000	1.50	1.50	1.50	0.41	0.1	0.0	0.0	-0.0	-2.4	74.6	0.0	1695.8	2.5
124	103	5/16" NILSPI	0.095	0.095	0.004	1.10	1.10	0.00	0.41	0.9	0.0	0.0	-0.0	-2.1	75.0	0.0	1692.4	2.6
123	339	Wire Profile	0.070	0.070	0.003	0.50	0.50	0.50	0.41	0.3	0.0	0.0	-0.0	-0.5	75.6	0.0	1691.2	2.6
122	103	5/16" NILSPI	4.662	4.670	0.270	1.10	1.10	0.00	0.36	34.7	0.0	0.0	-2.0	-104.4	94.7	0.0	1637.6	4.0
121	103	5/16" NILSPI	4.750	4.765	0.381	1.09	1.10	0.00	0.29	22.7	0.0	0.0	-1.8	-106.5	122.7	0.0	1530.3	5.2
120	340	WFP	0.455	0.457	0.041	0.20	0.20	0.20	0.26	0.3	0.0	0.0	-0.0	0.0	133.4	0.0	1476.0	5.2
119	103	5/16" NILSPI	4.741	4.765	0.475	1.09	1.10	0.00	0.25	16.8	0.0	0.0	-1.7	-106.5	142.4	0.0	1422.0	6.3
118	103	5/16" NILSPI	3.502	3.526	0.411	1.08	1.10	0.00	0.23	10.5	0.0	0.0	-1.2	-78.8	155.9	0.0	1327.9	7.1
117	338	Wire Profile	0.069	0.070	0.009	0.50	0.50	0.50	0.22	0.1	0.0	0.0	-0.0	-0.5	161.0	0.0	1287.8	7.1
116	103	5/16" NILSPI	0.095	0.095	0.012	1.08	1.10	0.00	0.22	0.3	0.0	0.0	-0.0	-2.1	161.2	0.0	1286.3	7.2
115	13	ind. term	0.005	0.005	0.001	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-2.4	161.4	0.0	1285.1	7.2
114	215	51" Syntact	1.327	1.327	1.327	0.50	0.50	0.50	0.22	1.7	0.0	0.0	0.0	380.0	161.4	0.0	1282.7	7.2



OOI Global PAPA Hybrid Profiler Mooring
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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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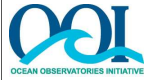
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc]	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
113	13	ind. term	0.005	0.005	0.000	1.49	1.50	1.49	0.22	0.0	0.0	0.0	-0.0	-2.4	163.1	0.0	1662.7	5.6
112	103	5/16" NILSPI	0.095	0.095	0.009	1.09	1.10	0.00	0.22	0.3	0.0	0.0	-0.0	-2.1	163.3	0.0	1659.3	5.6
111	339	Wire Profile	0.070	0.070	0.007	0.50	0.50	0.50	0.22	0.1	0.0	0.0	-0.0	-0.5	163.4	0.0	1658.2	5.6
110	103	5/16" NILSPI	4.644	4.670	0.492	1.09	1.10	0.00	0.22	12.6	0.0	0.0	-1.3	-104.4	169.9	0.0	1604.9	6.5
109	103	5/16" NILSPI	4.730	4.765	0.575	1.08	1.10	0.00	0.21	11.9	0.0	0.0	-1.4	-106.5	182.1	0.0	1498.1	7.4
108	340	WFP	0.453	0.457	0.059	0.20	0.20	0.20	0.21	0.2	0.0	0.0	-0.0	0.0	188.0	0.0	1444.0	7.4
107	103	5/16" NILSPI	4.719	4.765	0.659	1.08	1.10	0.00	0.21	11.4	0.0	0.0	-1.6	-106.5	193.9	0.0	1390.1	8.5
105	103	5/16" NILSPI	3.483	3.526	0.548	1.07	1.10	0.00	0.20	8.2	0.0	0.0	-1.3	-78.8	203.7	0.0	1296.0	9.4
104	338	Wire Profile	0.069	0.070	0.011	0.49	0.50	0.49	0.20	0.1	0.0	0.0	-0.0	-0.5	207.8	0.0	1255.8	9.4
103	103	5/16" NILSPI	0.094	0.095	0.016	1.07	1.10	0.00	0.20	0.2	0.0	0.0	-0.0	-2.1	207.9	0.0	1254.4	9.4
102	13	ind. term	0.005	0.005	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-2.4	208.1	0.0	1253.2	9.4
101	300	Load Cage	0.296	0.300	0.049	1.28	1.30	0.89	0.20	0.9	0.0	0.0	-0.1	-60.0	208.1	0.0	1250.8	9.4
100	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	208.9	0.0	1190.6	10.0
99	53	PL 3t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	209.0	0.0	1190.0	10.0
98	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	209.0	0.0	1189.2	10.0
97	181	1/2" MR	0.098	0.100	0.017	1.58	1.60	0.98	0.20	0.3	0.0	0.0	-0.1	-15.2	209.2	0.0	1182.5	10.1
96	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	209.4	0.0	1173.3	10.1



OOI Global PAPA Hybrid Profiler Mooring
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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
95	53	PL 3t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	209.4	0.0	1172.6	10.1
94	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	209.4	0.0	1171.9	10.1
93	274	HR17-4 seria	0.984	1.000	0.176	0.59	0.60	1.04	0.20	1.3	0.0	0.0	-0.2	88.0	209.4	0.0	1171.2	10.1
92	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	210.7	0.0	1259.0	9.5
91	53	PL 3t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	210.8	0.0	1258.4	9.5
90	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	210.8	0.0	1257.6	9.5
89	274	HR17-4 seria	0.986	1.000	0.165	0.59	0.60	1.05	0.20	1.3	0.0	0.0	-0.2	88.0	210.8	0.0	1256.9	9.5
88	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	212.1	0.0	1344.8	9.0
87	53	PL 3t 3/4"	0.009	0.010	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	212.2	0.0	1344.1	9.0
86	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	212.2	0.0	1343.3	9.0
85	103	5/16" NILSPI	0.094	0.095	0.015	1.07	1.10	0.00	0.20	0.2	0.0	0.0	-0.0	-2.1	212.3	0.0	1341.7	9.0
84	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.20	1.6	0.0	0.0	0.0	0.0	212.4	0.0	1340.5	9.0
83	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	214.1	0.0	1340.5	9.1
82	53	PL 3t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	214.1	0.0	1339.8	9.1
81	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	214.1	0.0	1339.1	9.1
80	103	5/16" NILSPI	0.188	0.191	0.030	1.07	1.10	0.00	0.20	0.4	0.0	0.0	-0.1	-4.3	214.4	0.0	1336.4	9.1
79	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.20	1.6	0.0	0.0	0.0	0.0	214.6	0.0	1334.1	9.1



OOI Global PAPA Hybrid Profiler Mooring
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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
78	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	216.2	0.0	1334.1	9.2
77	53	PL 3t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	216.2	0.0	1333.4	9.2
76	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	216.3	0.0	1332.7	9.2
75	181	1/2" MR	0.099	0.100	0.016	1.58	1.60	0.99	0.20	0.3	0.0	0.0	-0.1	-15.2	216.4	0.0	1325.9	9.3
74	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	216.6	0.0	1316.8	9.3
73	53	PL 3t 3/4"	0.009	0.010	0.002	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	216.7	0.0	1316.1	9.3
72	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	216.7	0.0	1315.4	9.4
71	274	HR17-4 seria	0.987	1.000	0.163	0.59	0.60	1.05	0.20	1.3	0.0	0.0	-0.2	88.0	216.7	0.0	1314.7	9.4
70	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	218.0	0.0	1402.5	8.8
69	53	PL 3t 3/4"	0.009	0.010	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	218.1	0.0	1401.9	8.8
68	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	218.1	0.0	1401.1	8.8
67	274	HR17-4 seria	0.988	1.000	0.154	0.59	0.60	1.05	0.20	1.3	0.0	0.0	-0.2	88.0	218.1	0.0	1400.4	8.9
66	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	219.4	0.0	1488.3	8.4
65	53	PL 3t 3/4"	0.009	0.010	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	219.4	0.0	1487.6	8.4
64	32	AS 3t 5/8"	0.006	0.006	0.001	1.48	1.50	1.48	0.20	0.0	0.0	0.0	-0.0	-0.7	219.5	0.0	1486.8	8.4
63	274	HR17-4 seria	0.989	1.000	0.146	0.59	0.60	1.05	0.20	1.3	0.0	0.0	-0.2	88.0	219.5	0.0	1486.2	8.4
62	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	220.8	0.0	1574.0	8.0



OOI Global PAPA Hybrid Profiler Mooring
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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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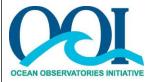
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
61	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	220.8	0.0	1573.3	8.0
60	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	220.9	0.0	1572.6	8.0
59	274	HR17-4 seria	0.990	1.000	0.139	0.59	0.60	1.05	0.20	1.3	0.0	0.0	-0.2	88.0	220.9	0.0	1571.9	8.0
58	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	222.2	0.0	1659.8	7.6
57	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	222.2	0.0	1659.1	7.6
56	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	222.3	0.0	1658.4	7.6
55	274	HR17-4 seria	0.991	1.000	0.133	0.59	0.60	1.05	0.20	1.3	0.0	0.0	-0.2	88.0	222.3	0.0	1657.7	7.6
54	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	223.6	0.0	1745.5	7.3
53	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	223.6	0.0	1744.9	7.3
52	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	223.7	0.0	1744.1	7.3
51	274	HR17-4 seria	0.992	1.000	0.127	0.60	0.60	1.05	0.20	1.3	0.0	0.0	-0.2	88.0	223.7	0.0	1743.5	7.3
50	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	225.0	0.0	1831.3	7.0
49	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	225.0	0.0	1830.6	7.0
48	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	225.0	0.0	1829.9	7.0
47	274	HR17-4 seria	0.993	1.000	0.122	0.60	0.60	1.05	0.20	1.3	0.0	0.0	-0.2	88.0	225.1	0.0	1829.2	7.0
46	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	226.4	0.0	1917.1	6.7
45	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	226.4	0.0	1916.4	6.7



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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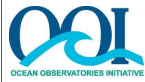
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
44	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	226.4	0.0	1915.7	6.7
43	274	HR17-4 seria	0.993	1.000	0.117	0.60	0.60	1.05	0.20	1.3	0.0	0.0	-0.1	88.0	226.5	0.0	1915.0	6.7
42	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	227.8	0.0	2002.9	6.5
41	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	227.8	0.0	2002.2	6.5
40	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	227.8	0.0	2001.5	6.5
39	274	HR17-4 seria	0.994	1.000	0.113	0.60	0.60	1.05	0.20	1.3	0.0	0.0	-0.1	88.0	227.9	0.0	2000.8	6.5
38	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	229.2	0.0	2088.7	6.3
37	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	229.2	0.0	2088.0	6.3
36	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	229.2	0.0	2087.3	6.3
35	274	HR17-4 seria	0.994	1.000	0.109	0.60	0.60	1.05	0.20	1.3	0.0	0.0	-0.1	88.0	229.3	0.0	2086.6	6.3
34	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	230.6	0.0	2174.5	6.1
33	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	230.6	0.0	2173.8	6.1
32	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	230.6	0.0	2173.0	6.1
31	274	HR17-4 seria	0.994	1.000	0.106	0.60	0.60	1.05	0.20	1.3	0.0	0.0	-0.1	88.0	230.6	0.0	2172.4	6.1
30	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	232.0	0.0	2260.3	5.9
29	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	232.0	0.0	2259.6	5.9
28	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	232.0	0.0	2258.8	5.9



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
27	181	1/2" MR	0.099	0.100	0.010	1.59	1.60	0.99	0.20	0.3	0.0	0.0	-0.0	-15.2	232.2	0.0	2252.1	5.9
26	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	232.4	0.0	2243.0	5.9
25	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	232.4	0.0	2242.3	5.9
24	33	AS 5t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-1.1	232.4	0.0	2241.5	5.9
23	94	Swivel 5t	0.025	0.025	0.003	1.19	1.20	1.19	0.20	0.1	0.0	0.0	-0.0	-5.3	232.5	0.0	2240.5	5.9
22	33	AS 5t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-1.1	232.5	0.0	2235.1	5.9
21	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	232.6	0.0	2234.0	5.9
20	33	AS 5t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-1.1	232.6	0.0	2233.3	5.9
19	478	Dual Release	0.286	0.288	0.030	1.19	1.20	0.90	0.20	0.8	0.0	0.0	-0.1	-61.0	232.6	0.0	2232.2	5.9
18	480	1/2" dropcha	0.024	0.024	0.003	1.59	1.60	0.99	0.20	0.1	0.0	0.0	-0.0	-6.8	233.4	0.0	2171.2	6.1
17	76	ML 17t 1-1/4	0.025	0.026	0.003	1.49	1.50	1.49	0.20	0.1	0.0	0.0	-0.0	-4.8	233.5	0.0	2164.3	6.2
16	34	AS 6t 7/8"	0.012	0.012	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-1.6	233.6	0.0	2159.5	6.2
15	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	233.6	0.0	2157.9	6.2
14	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	233.6	0.0	2157.2	6.2
13	181	1/2" MR	0.099	0.100	0.011	1.59	1.60	0.99	0.20	0.3	0.0	0.0	-0.0	-15.2	233.8	0.0	2150.4	6.2
12	32	AS 3t 5/8"	0.006	0.006	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	234.0	0.0	2141.3	6.2
11	64	EL 6t 7/8"	0.012	0.012	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-1.0	234.0	0.0	2140.6	6.2



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:49, mlankhorst@sendlab01(GLNX86)

Event #002 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
10	34	AS 6t 7/8"	0.012	0.012	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-1.6	234.1	0.0	2139.6	6.2
9	113	Nystron-1"	0.517	0.520	0.057	1.29	1.30	0.02	0.20	1.5	0.0	0.0	-0.2	-2.0	234.8	0.0	2137.0	6.3
8	34	AS 6t 7/8"	0.012	0.012	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-1.6	235.6	0.0	2135.9	6.3
7	64	EL 6t 7/8"	0.012	0.012	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-1.0	235.6	0.0	2134.3	6.3
6	34	AS 6t 7/8"	0.012	0.012	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-1.6	235.6	0.0	2133.3	6.3
5	183	3/4" MR	0.149	0.150	0.017	1.59	1.60	0.99	0.20	0.5	0.0	0.0	-0.1	-33.0	235.9	0.0	2118.5	6.4
4	33	AS 5t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-1.1	236.2	0.0	2098.6	6.4
3	53	PL 3t 3/4"	0.010	0.010	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-0.7	236.2	0.0	2097.6	6.4
2	34	AS 6t 7/8"	0.012	0.012	0.001	1.49	1.50	1.49	0.20	0.0	0.0	0.0	-0.0	-1.6	236.3	0.0	2096.8	6.4
1	522	double MACE	1.200	1.200	0.000	1.20	1.20	1.20	0.20	3.1	0.0	0.0	0.0	-2742.1	236.3	0.0	2095.3	0.0



OOI Global PAPA Hybrid Profiler Mooring
 designed for 4221m Depth, parking position

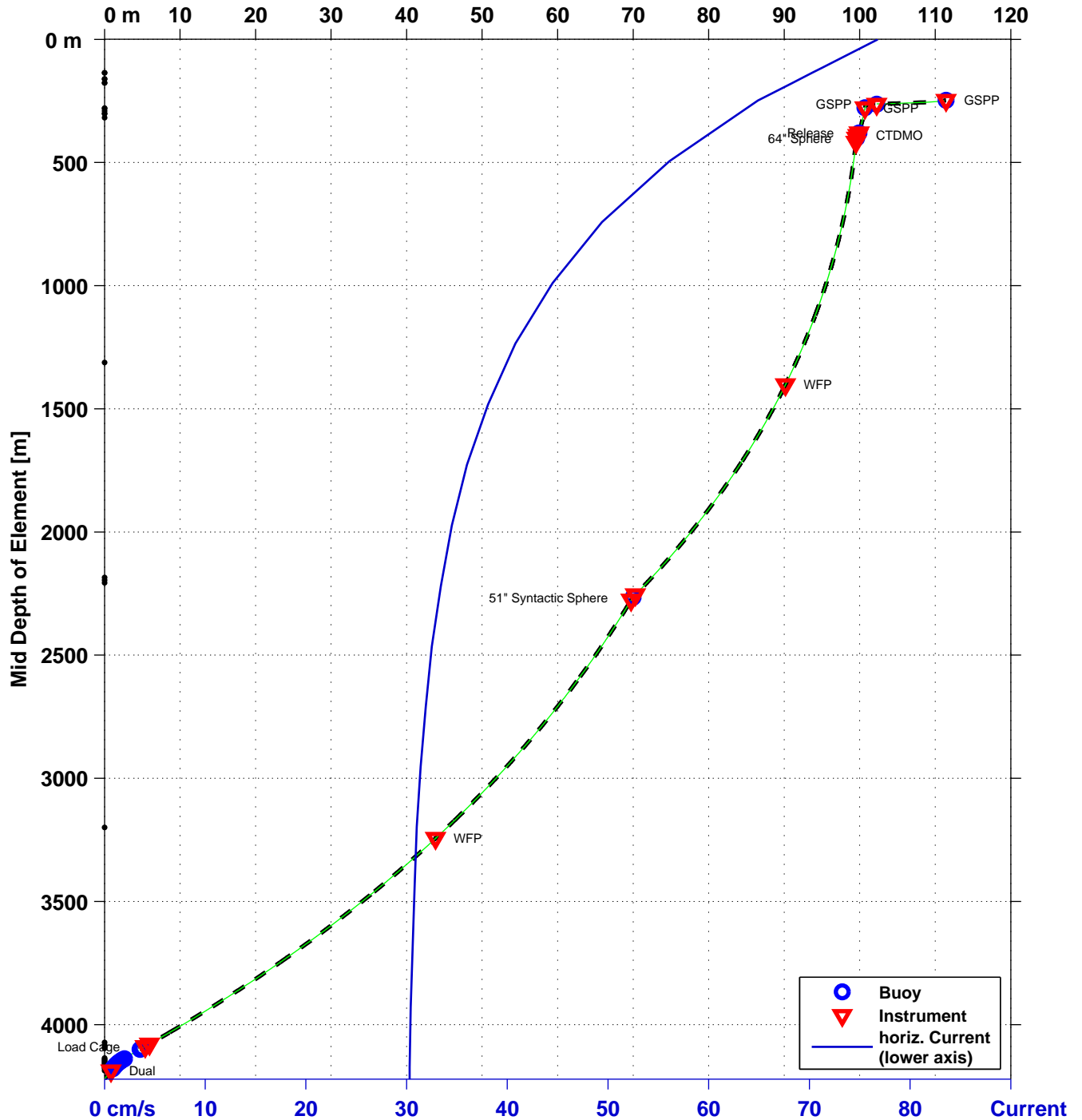


By: M. Lankhorst 27-Jan-2014 DCN: 3203-00010 REV: B REF.DES. GP02HYPM

Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:48, mlankhorst@sendlab01(GLNX86)

Event #003 – Subduction [m]: max. 111m, Top at 248m
 Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf



Event #003: Vert / Horiz anchor load: 2041 kg / 479 kg
 Vert / Horiz anchor safety : 125 % / 120 %,
 Safe Wet MACE anchor weight: 2619 kg, (max. 500 kg or Horiz. safety)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



OOI Global PAPA Hybrid Profiler Mooring designed for 4221m Depth, parking position



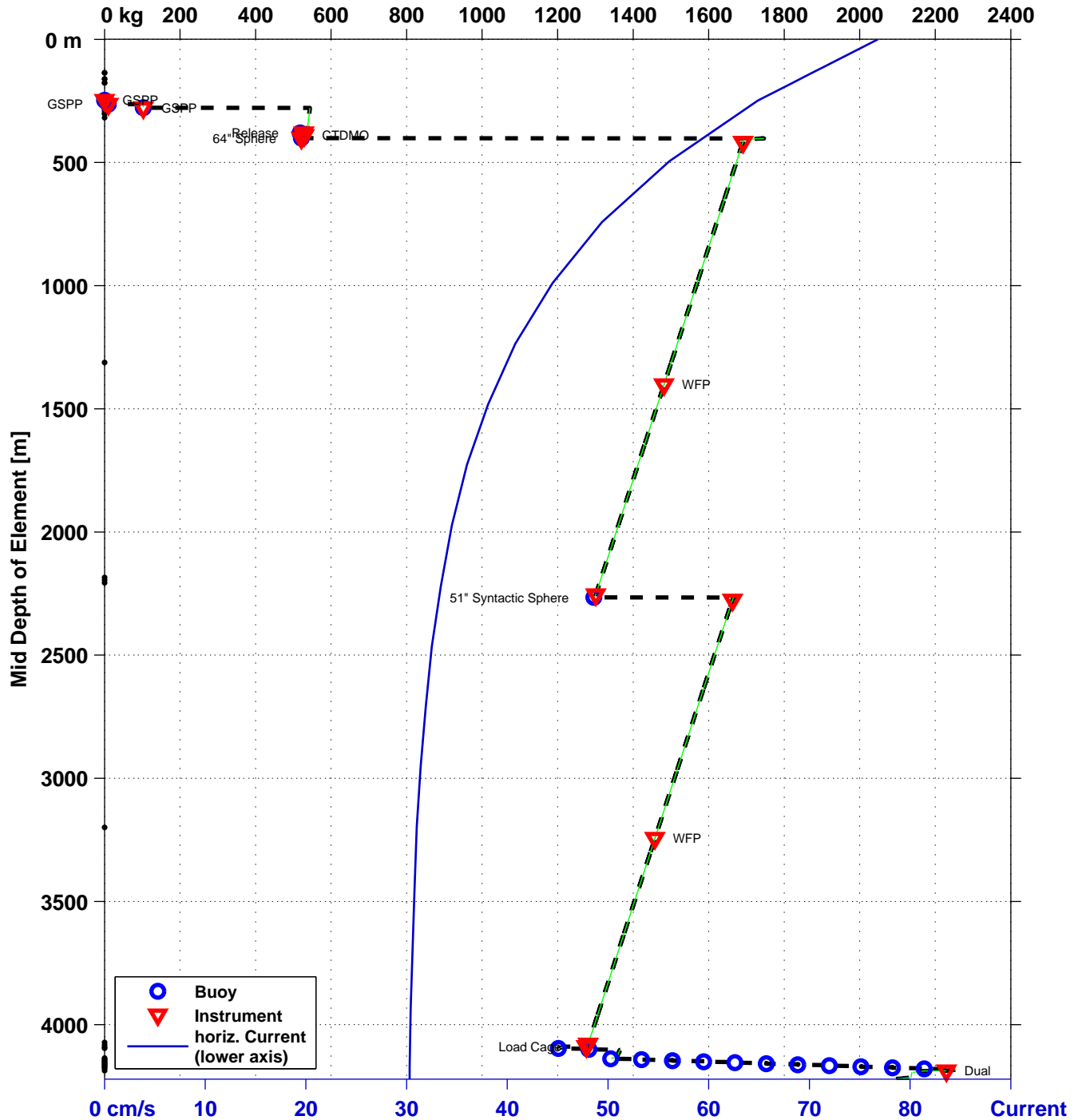
By: M. Lankhorst 27-Jan-2014 DCN: 3203-00010 REV: B REF.DES. GP02HYPM

Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hymp/gp02hymp_bak20140124.cfg

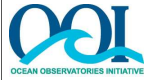
Author: 27-Jan-2014 11:31:48, mlankhorst@sendlab01(GLNX86)

Event #003 – Tension [kg]

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf



Event #003: Vert / Horiz anchor load : 2041 kg / 479 kg
 Vert / Horiz anchor safety : 125 % / 120 %,
 Safe Wet MACE anchor weight : 2619 kg, (max. 500 kg or Horiz. safety)
 Wet / Dry MACE anchor weight : 2742 kg / 3170 kg



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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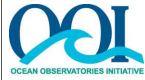
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Result

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
155	416	GSPP Comm. Float	1.5	6.0	0.210	0.80	0.65	3.7	0.0	0.0	0.00	0.00	246.8	111.4	882.7	31.7
153	130	Data Cable w/	10.0	1.0	0.200	1.30	0.65	3.0	8.2	0.4	0.00	0.01	248.6	111.2	881.9	52.1
152	130	Data Cable w/	13.0	1.3	0.260	1.30	0.65	2.0	9.8	0.5	0.00	0.01	255.8	108.4	875.1	62.0
150	415	GSPP Instrument	2.5	100.0	1.525	0.80	0.64	7.8	9.9	0.1	0.00	0.00	263.4	102.3	864.0	62.4
148	124	Data Cable	3.5	-0.1	0.023	1.30	0.64	0.6	102.7	5.1	0.00	0.14	263.7	100.9	861.8	9.5
147	124	Data Cable	10.0	-0.1	0.065	1.30	0.64	1.8	102.7	5.1	0.01	0.14	267.3	100.9	861.2	10.5
145	410	GSPP Winch Float	1.8	440.0	1.539	1.20	0.64	39.4	102.5	1.0	0.00	0.00	277.5	100.7	859.5	10.6
143	101	3/16" NILSPIN	50.7	-3.9	0.321	1.10	0.63	7.2	543.9	30.0	0.15	0.30	278.9	100.7	859.2	7.0
142	101	3/16" NILSPIN	50.1	-3.9	0.317	1.10	0.61	6.7	540.0	29.7	0.15	0.30	329.2	100.3	853.4	7.7
141	13	ind. term	0.1	-2.4	0.005	1.50	0.60	0.1	536.2	3.4	0.00	0.00	378.5	99.9	847.0	7.7
140	15	coupler ec	0.2	-6.0	0.020	1.50	0.60	0.6	533.8	3.3	0.00	0.00	378.6	99.9	846.9	7.8
138	479	Release Float	1.0	0.0	0.592	1.20	0.60	13.6	527.9	5.3	0.00	0.00	379.2	99.9	846.9	7.9
137	98	EM Swivel 5t	0.6	-8.0	0.054	1.20	0.60	1.2	528.2	3.5	0.00	0.00	380.0	99.9	846.8	9.4
135	13	ind. term	0.1	-2.4	0.005	1.50	0.60	0.1	520.3	3.3	0.00	0.00	380.4	99.9	846.7	9.7
134	256	CF14-1000	0.0	13.0	0.225	0.50	0.60	2.2	518.0	8.6	0.00	0.00	380.4	99.9	846.7	9.8
132	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.60	1.9	530.8	11.4	0.01	0.12	380.9	99.9	846.7	10.0
131	337	CTDMO	0.0	-2.8	0.042	1.40	0.60	1.1	528.7	5.3	0.00	0.00	390.3	99.8	845.0	10.0



OOI Global PAPA Hybrid Profiler Mooring
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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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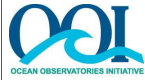
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyps/gp02hyps_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m^2]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
130	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.60	1.9	526.0	11.3	0.01	0.12	390.8	99.8	845.0	10.4
129	13	ind. term	0.1	-2.4	0.005	1.50	0.59	0.1	523.9	3.3	0.00	0.00	400.2	99.6	843.2	10.4
128	306	64" Sphere 1000m	2.2	1230.0	2.087	0.50	0.59	19.3	521.5	5.2	0.00	0.00	401.4	99.6	843.1	10.5
127	17	U-Joint	0.3	-16.3	0.090	1.50	0.59	2.6	1746.5	10.9	0.00	0.00	402.6	99.6	842.7	3.8
126	141	1/2" EM chain	5.0	-35.0	1.000	1.30	0.59	23.8	1730.3	17.3	0.00	0.00	403.3	99.6	842.7	4.6
125	13	ind. term	0.1	-2.4	0.005	1.50	0.59	0.1	1695.4	10.6	0.00	0.00	407.8	99.5	842.3	4.8
124	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.59	1.9	1693.0	36.4	0.04	0.38	408.3	99.5	842.3	4.8
123	339	Wire Profiler St	0.0	-0.5	0.070	0.50	0.59	0.7	1690.9	28.2	0.00	0.00	417.8	99.5	841.5	4.8
122	103	5/16" NILSPIN	491.8	-104.4	4.670	1.10	0.52	71.3	1690.4	36.3	1.78	0.36	418.3	99.5	841.5	7.8
121	103	5/16" NILSPIN	501.7	-106.5	4.765	1.10	0.42	47.2	1586.8	34.1	1.70	0.34	907.0	96.4	786.7	10.2
120	340	WFP	0.0	0.0	0.457	0.20	0.39	0.7	1481.7	14.8	0.00	0.00	1402.0	90.2	708.2	10.2
119	103	5/16" NILSPIN	501.6	-106.5	4.765	1.10	0.37	35.1	1481.7	31.8	1.58	0.32	1402.5	90.2	708.2	12.5
118	103	5/16" NILSPIN	371.1	-78.8	3.526	1.10	0.34	21.8	1377.4	29.6	1.10	0.30	1894.2	80.3	609.6	14.2
117	338	Wire Profiler St	0.0	-0.5	0.070	0.50	0.33	0.2	1300.9	21.7	0.00	0.00	2254.8	70.3	523.9	14.2
116	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.33	0.6	1300.4	27.9	0.03	0.29	2255.3	70.3	523.9	14.3
115	13	ind. term	0.1	-2.4	0.005	1.50	0.33	0.0	1298.4	8.1	0.00	0.00	2264.6	70.0	521.5	14.3
114	215	51" Syntactic S	1.5	380.0	1.327	0.50	0.33	3.9	1296.0	13.0	0.00	0.00	2265.4	70.0	521.4	14.3



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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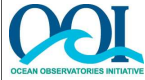
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
113	13	ind. term	0.1	-2.4	0.005	1.50	0.33	0.0	1667.6	10.4	0.00	0.00	2266.1	69.9	521.1	11.2
112	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.33	0.6	1665.3	35.8	0.04	0.37	2266.7	69.9	521.0	11.3
111	339	Wire Profiler St	0.0	-0.5	0.070	0.50	0.33	0.2	1663.2	27.7	0.00	0.00	2276.0	69.7	519.1	11.3
110	103	5/16" NILSPIN	491.8	-104.4	4.670	1.10	0.32	26.6	1662.7	35.7	1.75	0.36	2276.5	69.7	519.1	13.0
109	103	5/16" NILSPIN	501.7	-106.5	4.765	1.10	0.31	24.8	1560.8	33.5	1.67	0.33	2757.3	58.7	415.7	15.0
108	340	WFP	0.0	0.0	0.457	0.20	0.31	0.5	1457.7	14.6	0.00	0.00	3243.6	43.8	294.5	15.0
107	103	5/16" NILSPIN	501.6	-106.5	4.765	1.10	0.31	23.2	1457.7	31.3	1.56	0.31	3244.1	43.8	294.5	17.2
105	103	5/16" NILSPIN	371.1	-78.8	3.526	1.10	0.30	16.3	1355.6	29.1	1.08	0.29	3726.0	24.2	155.8	19.0
104	338	Wire Profiler St	0.0	-0.5	0.070	0.50	0.30	0.2	1280.9	21.3	0.00	0.00	4078.3	6.0	40.8	19.0
103	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.30	0.4	1280.5	27.5	0.03	0.28	4078.8	6.0	40.8	19.0
102	13	ind. term	0.1	-2.4	0.005	1.50	0.30	0.0	1278.5	8.0	0.00	0.00	4087.8	5.4	37.5	19.0
101	300	Load Cage	1.5	-60.0	0.300	1.30	0.30	1.8	1276.2	12.8	0.00	0.00	4088.6	5.4	37.5	19.1
100	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1219.8	10.2	0.00	0.00	4089.3	5.3	37.0	20.1
99	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	1219.2	10.2	0.00	0.00	4089.4	5.3	37.0	20.1
98	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1218.5	10.2	0.00	0.00	4089.5	5.3	37.0	20.1
97	181	1/2" MR	5.0	-15.2	0.100	1.60	0.30	0.7	1217.9	12.2	0.00	0.00	4090.0	5.3	36.9	20.4
96	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1203.6	10.0	0.00	0.00	4094.3	5.0	35.2	20.4



OOI Global PAPA Hybrid Profiler Mooring
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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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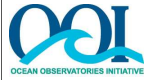
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
95	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	1203.0	10.0	0.00	0.00	4094.3	5.0	35.2	20.4
94	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1202.3	10.0	0.00	0.00	4094.4	5.0	35.1	20.4
93	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.30	2.8	1201.7	12.0	0.00	0.00	4096.5	5.0	35.1	20.5
92	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1284.7	10.7	0.00	0.00	4098.2	4.7	33.7	19.2
91	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	1284.1	10.7	0.00	0.00	4098.3	4.7	33.7	19.2
90	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1283.4	10.7	0.00	0.00	4098.4	4.7	33.7	19.2
89	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.30	2.8	1282.8	12.8	0.00	0.00	4100.4	4.7	33.6	19.3
88	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1366.3	11.4	0.00	0.00	4102.2	4.5	32.3	18.2
87	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	1365.7	11.4	0.00	0.00	4102.3	4.5	32.3	18.2
86	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1365.0	11.4	0.00	0.00	4102.4	4.5	32.3	18.2
85	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.30	0.4	1364.4	29.3	0.03	0.30	4102.9	4.5	32.3	18.2
84	491	Parachute	0.0	0.0	1.500	0.50	0.30	3.7	1362.3	13.6	0.00	0.00	4112.0	4.0	29.1	18.2
83	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1363.5	11.4	0.00	0.00	4112.0	4.0	29.1	18.4
82	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	1362.9	11.4	0.00	0.00	4112.1	4.0	29.1	18.4
81	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1362.2	11.4	0.00	0.00	4112.2	4.0	29.1	18.4
80	103	5/16" NILSPIN	20.1	-4.3	0.191	1.10	0.30	0.9	1361.6	29.3	0.06	0.30	4112.7	4.0	29.0	18.5
79	491	Parachute	0.0	0.0	1.500	0.50	0.30	3.7	1357.5	13.6	0.00	0.00	4131.2	2.9	22.7	18.5



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyps/gp02hyps_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
78	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1358.7	11.3	0.00	0.00	4131.3	2.9	22.7	18.7
77	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	1358.1	11.3	0.00	0.00	4131.3	2.9	22.7	18.7
76	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1357.4	11.3	0.00	0.00	4131.4	2.9	22.6	18.7
75	181	1/2" MR	5.0	-15.2	0.100	1.60	0.30	0.7	1356.8	13.6	0.00	0.00	4132.0	2.9	22.6	18.9
74	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1342.4	11.2	0.00	0.00	4136.2	2.7	21.0	18.9
73	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	1341.8	11.2	0.00	0.00	4136.3	2.6	21.0	18.9
72	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1341.1	11.2	0.00	0.00	4136.4	2.6	20.9	19.0
71	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.30	2.8	1340.5	13.4	0.00	0.00	4138.4	2.6	20.9	19.0
70	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1424.1	11.9	0.00	0.00	4140.2	2.4	19.6	17.9
69	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	1423.5	11.9	0.00	0.00	4140.3	2.4	19.6	17.9
68	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1422.8	11.9	0.00	0.00	4140.4	2.4	19.6	18.0
67	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.30	2.8	1422.2	14.2	0.00	0.00	4142.4	2.4	19.5	18.0
66	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1506.2	12.6	0.00	0.00	4144.3	2.2	18.3	17.0
65	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	1505.6	12.5	0.00	0.00	4144.4	2.2	18.3	17.1
64	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1504.9	12.5	0.00	0.00	4144.4	2.2	18.3	17.1
63	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.30	2.8	1504.3	15.0	0.00	0.00	4146.5	2.2	18.2	17.1
62	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1588.7	13.2	0.00	0.00	4148.3	2.0	17.1	16.3



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
61	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	1588.1	13.2	0.00	0.00	4148.4	2.0	17.0	16.3
60	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1587.4	13.2	0.00	0.00	4148.5	2.0	17.0	16.3
59	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.30	2.9	1586.8	15.9	0.00	0.00	4150.5	2.0	17.0	16.3
58	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1671.5	13.9	0.00	0.00	4152.4	1.9	15.9	15.5
57	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	1670.9	13.9	0.00	0.00	4152.5	1.9	15.9	15.5
56	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1670.2	13.9	0.00	0.00	4152.6	1.8	15.8	15.6
55	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.30	2.9	1669.5	16.7	0.00	0.00	4154.6	1.8	15.8	15.6
54	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1754.6	14.6	0.00	0.00	4156.5	1.7	14.7	14.9
53	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	1753.9	14.6	0.00	0.00	4156.6	1.7	14.7	14.9
52	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1753.2	14.6	0.00	0.00	4156.7	1.7	14.7	14.9
51	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.30	2.9	1752.6	17.5	0.00	0.00	4158.7	1.7	14.7	14.9
50	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1837.9	15.3	0.00	0.00	4160.6	1.6	13.6	14.3
49	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	1837.2	15.3	0.00	0.00	4160.7	1.6	13.6	14.3
48	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1836.5	15.3	0.00	0.00	4160.8	1.6	13.6	14.3
47	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.30	2.9	1835.9	18.4	0.00	0.00	4162.8	1.5	13.6	14.3
46	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1921.3	16.0	0.00	0.00	4164.7	1.4	12.6	13.8
45	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	1920.7	16.0	0.00	0.00	4164.8	1.4	12.6	13.8



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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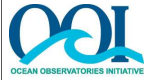
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyperm/gp02hyperm_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
44	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	1920.0	16.0	0.00	0.00	4164.9	1.4	12.6	13.8
43	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.30	2.9	1919.4	19.2	0.00	0.00	4166.9	1.4	12.5	13.8
42	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	2005.0	16.7	0.00	0.00	4168.8	1.3	11.6	13.3
41	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	2004.4	16.7	0.00	0.00	4168.9	1.3	11.6	13.3
40	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	2003.7	16.7	0.00	0.00	4169.0	1.3	11.5	13.3
39	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.30	2.9	2003.0	20.0	0.00	0.00	4171.0	1.3	11.5	13.3
38	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	2088.8	17.4	0.00	0.00	4173.0	1.2	10.6	12.8
37	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	2088.2	17.4	0.00	0.00	4173.1	1.2	10.6	12.8
36	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	2087.5	17.4	0.00	0.00	4173.1	1.2	10.6	12.8
35	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.30	2.9	2086.8	20.9	0.00	0.00	4175.2	1.2	10.6	12.8
34	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	2172.8	18.1	0.00	0.00	4177.1	1.1	9.7	12.4
33	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	2172.1	18.1	0.00	0.00	4177.2	1.1	9.7	12.4
32	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	2171.4	18.1	0.00	0.00	4177.3	1.1	9.6	12.4
31	274	HR17-4 serial	4.0	88.0	1.000	0.60	0.30	2.9	2170.8	21.7	0.00	0.00	4179.3	1.1	9.6	12.4
30	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	2256.9	18.8	0.00	0.00	4181.2	1.0	8.8	12.0
29	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	2256.2	18.8	0.00	0.00	4181.3	1.0	8.7	12.0
28	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	2255.5	18.8	0.00	0.00	4181.4	1.0	8.7	12.0



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	[%]	Stretch [m]	[%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
27	181	1/2" MR	5.0	-15.2	0.100	1.60	0.30	0.7	2254.9	22.5	0.00	0.00	4182.0	1.0	8.7	12.1
26	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	2240.0	18.7	0.00	0.00	4186.4	0.9	7.7	12.1
25	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	2239.3	18.7	0.00	0.00	4186.5	0.9	7.6	12.1
24	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.30	0.1	2238.6	12.4	0.00	0.00	4186.6	0.9	7.6	12.1
23	94	Swivel 5t	0.2	-5.3	0.025	1.20	0.30	0.1	2237.6	22.4	0.00	0.00	4186.7	0.9	7.6	12.1
22	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.30	0.1	2232.4	12.4	0.00	0.00	4186.9	0.9	7.6	12.2
21	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	2231.3	18.6	0.00	0.00	4186.9	0.9	7.5	12.2
20	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.30	0.1	2230.6	12.4	0.00	0.00	4187.0	0.9	7.5	12.2
19	478	Dual Release	1.0	-61.0	0.288	1.20	0.30	1.7	2229.6	22.3	0.00	0.00	4187.6	0.9	7.5	12.2
18	480	1/2" dropchain	0.6	-6.8	0.024	1.60	0.30	0.2	2170.0	13.6	0.00	0.00	4188.4	0.8	7.3	12.6
17	76	ML 17t 1-1/4"	0.2	-4.8	0.026	1.50	0.30	0.2	2163.4	4.9	0.00	0.00	4188.8	0.8	7.1	12.6
16	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.30	0.1	2158.7	9.0	0.00	0.00	4189.0	0.8	7.1	12.7
15	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	2157.1	18.0	0.00	0.00	4189.1	0.8	7.1	12.7
14	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	2156.4	18.0	0.00	0.00	4189.1	0.8	7.1	12.7
13	181	1/2" MR	5.0	-15.2	0.100	1.60	0.30	0.7	2155.8	21.6	0.00	0.00	4189.7	0.8	7.0	12.8
12	32	AS 3t 5/8"	0.1	-0.7	0.006	1.50	0.30	0.0	2141.0	17.8	0.00	0.00	4194.1	0.7	5.9	12.8
11	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.30	0.1	2140.3	8.9	0.00	0.00	4194.2	0.7	5.9	12.8



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hyps/gp02hyps_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Result, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Mooring Element	Length [m]	Buoy [kg]	Area [m ²]	Cd	Current [m/s]	Drag [kg]	Tension [kg]	Tension [%]	Stretch [m]	Stretch [%]	Depth [m]	dZ [m]	dXY [m]	Tilt [deg]
10	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.30	0.1	2139.3	8.9	0.00	0.00	4194.3	0.7	5.9	12.8
9	113	Nystron-1"	20.8	-2.0	0.520	1.30	0.30	3.1	2137.8	12.7	0.76	3.82	4194.8	0.7	5.9	12.9
8	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.30	0.1	2135.9	8.9	0.00	0.00	4214.6	0.1	1.3	12.9
7	64	EL 6t 7/8"	0.1	-1.0	0.012	1.50	0.30	0.1	2134.4	8.9	0.00	0.00	4214.7	0.1	1.2	12.9
6	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.30	0.1	2133.4	8.9	0.00	0.00	4214.8	0.1	1.2	12.9
5	183	3/4" MR	5.0	-33.1	0.150	1.60	0.30	1.1	2131.9	8.9	0.00	0.00	4215.4	0.1	1.2	13.1
4	33	AS 5t 3/4"	0.1	-1.1	0.010	1.50	0.30	0.1	2099.7	11.7	0.00	0.00	4219.8	0.0	0.1	13.2
3	53	PL 3t 3/4"	0.1	-0.7	0.010	1.50	0.30	0.1	2098.7	17.5	0.00	0.00	4219.9	0.0	0.0	13.2
2	34	AS 6t 7/8"	0.1	-1.6	0.012	1.50	0.30	0.1	2097.9	8.7	0.00	0.00	4220.0	0.0	0.0	13.2
1	522	double MACE Anch	1.0	-2742.1	1.200	1.20	0.30	7.1	2096.4	34.9	0.00	0.00	4221.0	0.0	0.0	0.0

Max. 36.4% Static Tension at:

124	103	5/16" NILSPIN	10.0	-2.1	0.095	1.10	0.59	1.9	1693.0	36.4	0.04	0.38	408.3	99.5	842.3	4.8
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Vert/Horiz Anchor Load : 2041 kg / 479 kg
Wet MACE Anchor Weight : 2742 kg
Safe MACE Anchor Weight : 2619 kg



OOI Global PAPA Hybrid Profiler Mooring
 designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Parameter

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc]	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
155	416	GSPP Comm. F	0.210	0.210	0.000	0.80	0.80	0.80	0.65	3.7	0.0	0.0	0.0	6.0	0.0	0.0	0.0	31.7
153	130	Data Cable	0.145	0.200	0.136	0.94	1.30	0.01	0.65	3.0	0.0	0.0	-2.0	1.0	5.2	0.0	5.5	52.1
152	130	Data Cable	0.136	0.260	0.221	0.68	1.30	0.01	0.65	2.0	0.0	0.0	-1.7	1.3	7.7	0.0	4.7	62.0
150	415	GSPP Instrum	0.707	1.525	1.351	0.37	0.80	0.37	0.64	7.8	0.0	0.0	-3.2	100.0	8.8	0.0	4.6	62.4
148	124	Data Cable	0.022	0.023	0.004	1.28	1.30	0.02	0.64	0.6	0.0	0.0	-0.1	-0.1	16.8	0.0	101.3	9.5
147	124	Data Cable	0.064	0.065	0.011	1.28	1.30	0.02	0.64	1.8	0.0	0.0	-0.3	-0.1	17.9	0.0	101.0	10.5
145	410	GSPP Winch F	1.539	1.539	1.539	1.20	1.20	4.50	0.64	39.4	0.0	0.0	0.0	440.0	18.9	0.0	100.8	10.6
143	101	3/16" NILSPI	0.319	0.321	0.037	1.08	1.10	0.00	0.63	7.2	0.0	0.0	-0.8	-3.9	61.9	0.0	538.5	7.0
142	101	3/16" NILSPI	0.315	0.317	0.041	1.08	1.10	0.00	0.61	6.7	0.0	0.0	-0.9	-3.9	68.8	0.0	533.8	7.7
141	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	72.2	0.0	531.3	7.7
140	15	coupler ec	0.020	0.020	0.003	1.49	1.50	1.49	0.60	0.6	0.0	0.0	-0.1	-6.0	72.3	0.0	528.9	7.8
138	479	Release Floa	0.586	0.592	0.082	1.19	1.20	0.89	0.60	13.6	0.0	0.0	-1.8	0.0	72.9	0.0	522.9	7.9
137	98	EM Swivel 5t	0.053	0.054	0.009	1.18	1.20	1.18	0.60	1.2	0.0	0.0	-0.2	-8.0	86.5	0.0	521.1	9.4
135	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	87.7	0.0	512.9	9.7
134	256	CF14-1000	0.222	0.225	0.038	0.49	0.50	0.39	0.60	2.2	0.0	0.0	-0.3	13.0	87.8	0.0	510.4	9.8
132	103	5/16" NILSPI	0.094	0.095	0.016	1.06	1.10	0.00	0.60	1.9	0.0	0.0	-0.3	-2.1	90.9	0.0	522.0	10.0
131	337	CTDMO	0.042	0.042	0.007	1.38	1.40	0.98	0.60	1.1	0.0	0.0	-0.2	-2.8	91.9	0.0	520.7	10.0



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc]	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
130	103	5/16" NILSPI	0.094	0.095	0.017	1.06	1.10	0.00	0.60	1.9	0.0	0.0	-0.3	-2.1	93.8	0.0	516.6	10.4
129	13	ind. term	0.005	0.005	0.001	1.48	1.50	1.48	0.59	0.1	0.0	0.0	-0.0	-2.4	94.9	0.0	515.2	10.4
128	306	64" Sphere 1	2.087	2.087	2.087	0.50	0.50	0.50	0.59	19.3	0.0	0.0	0.0	1230.0	95.0	0.0	512.8	10.5
127	17	U-Joint	0.090	0.090	0.006	1.50	1.50	1.50	0.59	2.6	0.0	0.0	-0.2	-16.3	114.3	0.0	1742.8	3.8
126	141	1/2" EM chai	0.997	1.000	0.074	1.30	1.30	1.00	0.59	23.8	0.0	0.0	-1.8	-35.0	126.5	0.0	1711.7	4.6
125	13	ind. term	0.005	0.005	0.000	1.49	1.50	1.49	0.59	0.1	0.0	0.0	-0.0	-2.4	140.8	0.0	1689.6	4.8
124	103	5/16" NILSPI	0.095	0.095	0.008	1.09	1.10	0.00	0.59	1.9	0.0	0.0	-0.2	-2.1	141.8	0.0	1686.1	4.8
123	339	Wire Profile	0.070	0.070	0.006	0.50	0.50	0.50	0.59	0.7	0.0	0.0	-0.0	-0.5	142.8	0.0	1684.9	4.8
122	103	5/16" NILSPI	4.640	4.670	0.520	1.08	1.10	0.00	0.52	71.3	0.0	0.0	-7.8	-104.4	182.0	0.0	1628.3	7.8
121	103	5/16" NILSPI	4.706	4.765	0.746	1.07	1.10	0.00	0.42	47.2	0.0	0.0	-7.3	-106.5	239.7	0.0	1515.3	10.2
120	340	WFP	0.450	0.457	0.081	0.20	0.20	0.20	0.39	0.7	0.0	0.0	-0.1	0.0	262.0	0.0	1458.3	10.2
119	103	5/16" NILSPI	4.672	4.765	0.937	1.05	1.10	0.00	0.37	35.1	0.0	0.0	-6.9	-106.5	280.9	0.0	1401.6	12.5
118	103	5/16" NILSPI	3.431	3.526	0.814	1.04	1.10	0.00	0.34	21.8	0.0	0.0	-5.0	-78.8	308.9	0.0	1303.1	14.2
117	338	Wire Profile	0.068	0.070	0.017	0.48	0.50	0.48	0.33	0.2	0.0	0.0	-0.0	-0.5	319.6	0.0	1261.0	14.2
116	103	5/16" NILSPI	0.092	0.095	0.023	1.03	1.10	0.00	0.33	0.6	0.0	0.0	-0.1	-2.1	320.1	0.0	1259.5	14.3
115	13	ind. term	0.005	0.005	0.001	1.45	1.50	1.45	0.33	0.0	0.0	0.0	-0.0	-2.4	320.4	0.0	1258.2	14.3
114	215	51" Syntact	1.327	1.327	1.327	0.50	0.50	0.50	0.33	3.9	0.0	0.0	0.0	380.0	320.4	0.0	1255.8	14.3



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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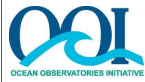
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc]	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
113	13	ind. term	0.005	0.005	0.001	1.47	1.50	1.47	0.33	0.0	0.0	0.0	-0.0	-2.4	324.3	0.0	1635.8	11.2
112	103	5/16" NILSPI	0.093	0.095	0.019	1.05	1.10	0.00	0.33	0.6	0.0	0.0	-0.1	-2.1	324.6	0.0	1632.4	11.3
111	339	Wire Profile	0.069	0.070	0.014	0.49	0.50	0.49	0.33	0.2	0.0	0.0	-0.0	-0.5	324.9	0.0	1631.2	11.3
110	103	5/16" NILSPI	4.565	4.670	0.982	1.05	1.10	0.00	0.32	26.6	0.0	0.0	-5.6	-104.4	338.6	0.0	1575.8	13.0
109	103	5/16" NILSPI	4.624	4.765	1.151	1.03	1.10	0.00	0.31	24.8	0.0	0.0	-6.0	-106.5	364.3	0.0	1464.6	15.0
108	340	WFP	0.441	0.457	0.118	0.19	0.20	0.19	0.31	0.5	0.0	0.0	-0.1	0.0	376.5	0.0	1408.2	15.0
107	103	5/16" NILSPI	4.579	4.765	1.318	1.01	1.10	0.00	0.31	23.2	0.0	0.0	-6.4	-106.5	388.7	0.0	1351.8	17.2
105	103	5/16" NILSPI	3.352	3.526	1.093	0.98	1.10	0.00	0.30	16.3	0.0	0.0	-5.0	-78.8	408.4	0.0	1253.4	19.0
104	338	Wire Profile	0.066	0.070	0.023	0.47	0.50	0.47	0.30	0.2	0.0	0.0	-0.0	-0.5	416.5	0.0	1211.3	19.0
103	103	5/16" NILSPI	0.090	0.095	0.031	0.97	1.10	0.00	0.30	0.4	0.0	0.0	-0.1	-2.1	416.9	0.0	1209.8	19.0
102	13	ind. term	0.005	0.005	0.002	1.42	1.50	1.42	0.30	0.0	0.0	0.0	-0.0	-2.4	417.1	0.0	1208.5	19.0
101	300	Load Cage	0.284	0.300	0.098	1.23	1.30	0.85	0.30	1.8	0.0	0.0	-0.5	-60.0	417.2	0.0	1206.1	19.1
100	32	AS 3t 5/8"	0.006	0.006	0.002	1.41	1.50	1.41	0.30	0.0	0.0	0.0	-0.0	-0.7	419.0	0.0	1145.6	20.1
99	53	PL 3t 3/4"	0.009	0.010	0.003	1.41	1.50	1.41	0.30	0.1	0.0	0.0	-0.0	-0.7	419.1	0.0	1144.9	20.1
98	32	AS 3t 5/8"	0.006	0.006	0.002	1.41	1.50	1.41	0.30	0.0	0.0	0.0	-0.0	-0.7	419.1	0.0	1144.1	20.1
97	181	1/2" MR	0.094	0.100	0.035	1.50	1.60	0.94	0.30	0.7	0.0	0.0	-0.2	-15.2	419.5	0.0	1137.3	20.4
96	32	AS 3t 5/8"	0.006	0.006	0.002	1.41	1.50	1.41	0.30	0.0	0.0	0.0	-0.0	-0.7	419.9	0.0	1128.0	20.4



OOI Global PAPA Hybrid Profiler Mooring
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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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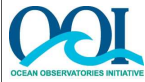
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
95	53	PL 3t 3/4"	0.009	0.010	0.003	1.41	1.50	1.41	0.30	0.1	0.0	0.0	-0.0	-0.7	419.9	0.0	1127.4	20.4
94	32	AS 3t 5/8"	0.006	0.006	0.002	1.41	1.50	1.41	0.30	0.0	0.0	0.0	-0.0	-0.7	420.0	0.0	1126.6	20.4
93	274	HR17-4 seria	0.937	1.000	0.350	0.56	0.60	0.99	0.30	2.8	0.0	0.0	-0.8	88.0	420.0	0.0	1125.9	20.5
92	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.30	0.0	0.0	0.0	-0.0	-0.7	422.8	0.0	1213.1	19.2
91	53	PL 3t 3/4"	0.009	0.010	0.003	1.42	1.50	1.42	0.30	0.1	0.0	0.0	-0.0	-0.7	422.9	0.0	1212.5	19.2
90	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.30	0.0	0.0	0.0	-0.0	-0.7	422.9	0.0	1211.7	19.2
89	274	HR17-4 seria	0.944	1.000	0.330	0.57	0.60	1.00	0.30	2.8	0.0	0.0	-0.8	88.0	423.0	0.0	1211.0	19.3
88	32	AS 3t 5/8"	0.006	0.006	0.002	1.43	1.50	1.43	0.30	0.0	0.0	0.0	-0.0	-0.7	425.8	0.0	1298.3	18.2
87	53	PL 3t 3/4"	0.009	0.010	0.003	1.43	1.50	1.43	0.30	0.1	0.0	0.0	-0.0	-0.7	425.8	0.0	1297.6	18.2
86	32	AS 3t 5/8"	0.006	0.006	0.002	1.43	1.50	1.43	0.30	0.0	0.0	0.0	-0.0	-0.7	425.9	0.0	1296.8	18.2
85	103	5/16" NILSPI	0.091	0.095	0.030	0.98	1.10	0.00	0.30	0.4	0.0	0.0	-0.1	-2.1	426.1	0.0	1295.1	18.2
84	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.30	3.7	0.0	0.0	0.0	0.0	426.4	0.0	1293.9	18.2
83	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.30	0.0	0.0	0.0	-0.0	-0.7	430.1	0.0	1293.9	18.4
82	53	PL 3t 3/4"	0.009	0.010	0.003	1.42	1.50	1.42	0.30	0.1	0.0	0.0	-0.0	-0.7	430.1	0.0	1293.2	18.4
81	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.30	0.0	0.0	0.0	-0.0	-0.7	430.2	0.0	1292.5	18.4
80	103	5/16" NILSPI	0.181	0.191	0.060	0.98	1.10	0.00	0.30	0.9	0.0	0.0	-0.3	-4.3	430.6	0.0	1289.6	18.5
79	491	Parachute	1.500	1.500	1.500	0.50	0.50	1.33	0.30	3.7	0.0	0.0	0.0	0.0	431.1	0.0	1287.3	18.5



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
78	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.30	0.0	0.0	0.0	-0.0	-0.7	434.8	0.0	1287.3	18.7
77	53	PL 3t 3/4"	0.009	0.010	0.003	1.42	1.50	1.42	0.30	0.1	0.0	0.0	-0.0	-0.7	434.8	0.0	1286.6	18.7
76	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.30	0.0	0.0	0.0	-0.0	-0.7	434.9	0.0	1285.8	18.7
75	181	1/2" MR	0.095	0.100	0.032	1.51	1.60	0.95	0.30	0.7	0.0	0.0	-0.2	-15.2	435.2	0.0	1279.0	18.9
74	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.30	0.0	0.0	0.0	-0.0	-0.7	435.6	0.0	1269.7	18.9
73	53	PL 3t 3/4"	0.009	0.010	0.003	1.42	1.50	1.42	0.30	0.1	0.0	0.0	-0.0	-0.7	435.7	0.0	1269.1	18.9
72	32	AS 3t 5/8"	0.006	0.006	0.002	1.42	1.50	1.42	0.30	0.0	0.0	0.0	-0.0	-0.7	435.8	0.0	1268.3	19.0
71	274	HR17-4 seria	0.946	1.000	0.325	0.57	0.60	1.00	0.30	2.8	0.0	0.0	-0.8	88.0	435.8	0.0	1267.6	19.0
70	32	AS 3t 5/8"	0.006	0.006	0.002	1.43	1.50	1.43	0.30	0.0	0.0	0.0	-0.0	-0.7	438.6	0.0	1354.9	17.9
69	53	PL 3t 3/4"	0.009	0.010	0.003	1.43	1.50	1.43	0.30	0.1	0.0	0.0	-0.0	-0.7	438.7	0.0	1354.2	17.9
68	32	AS 3t 5/8"	0.006	0.006	0.002	1.43	1.50	1.43	0.30	0.0	0.0	0.0	-0.0	-0.7	438.7	0.0	1353.4	18.0
67	274	HR17-4 seria	0.951	1.000	0.309	0.57	0.60	1.01	0.30	2.8	0.0	0.0	-0.7	88.0	438.8	0.0	1352.8	18.0
66	32	AS 3t 5/8"	0.006	0.006	0.002	1.43	1.50	1.43	0.30	0.0	0.0	0.0	-0.0	-0.7	441.6	0.0	1440.0	17.0
65	53	PL 3t 3/4"	0.009	0.010	0.003	1.43	1.50	1.43	0.30	0.1	0.0	0.0	-0.0	-0.7	441.7	0.0	1439.4	17.1
64	32	AS 3t 5/8"	0.006	0.006	0.002	1.43	1.50	1.43	0.30	0.0	0.0	0.0	-0.0	-0.7	441.7	0.0	1438.6	17.1
63	274	HR17-4 seria	0.956	1.000	0.294	0.57	0.60	1.01	0.30	2.8	0.0	0.0	-0.7	88.0	441.8	0.0	1437.9	17.1
62	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.30	0.0	0.0	0.0	-0.0	-0.7	444.6	0.0	1525.2	16.3



OOI Global PAPA Hybrid Profiler Mooring
 designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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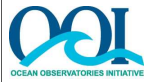
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
61	53	PL 3t 3/4"	0.009	0.010	0.003	1.44	1.50	1.44	0.30	0.1	0.0	0.0	-0.0	-0.7	444.7	0.0	1524.6	16.3
60	32	AS 3t 5/8"	0.006	0.006	0.002	1.44	1.50	1.44	0.30	0.0	0.0	0.0	-0.0	-0.7	444.8	0.0	1523.8	16.3
59	274	HR17-4 seria	0.960	1.000	0.280	0.58	0.60	1.02	0.30	2.9	0.0	0.0	-0.7	88.0	444.8	0.0	1523.1	16.3
58	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.30	0.0	0.0	0.0	-0.0	-0.7	447.7	0.0	1610.5	15.5
57	53	PL 3t 3/4"	0.009	0.010	0.003	1.45	1.50	1.45	0.30	0.1	0.0	0.0	-0.0	-0.7	447.7	0.0	1609.8	15.5
56	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.30	0.0	0.0	0.0	-0.0	-0.7	447.8	0.0	1609.0	15.6
55	274	HR17-4 seria	0.963	1.000	0.268	0.58	0.60	1.02	0.30	2.9	0.0	0.0	-0.7	88.0	447.8	0.0	1608.4	15.6
54	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.30	0.0	0.0	0.0	-0.0	-0.7	450.7	0.0	1695.7	14.9
53	53	PL 3t 3/4"	0.009	0.010	0.002	1.45	1.50	1.45	0.30	0.1	0.0	0.0	-0.0	-0.7	450.8	0.0	1695.0	14.9
52	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.30	0.0	0.0	0.0	-0.0	-0.7	450.8	0.0	1694.3	14.9
51	274	HR17-4 seria	0.966	1.000	0.257	0.58	0.60	1.02	0.30	2.9	0.0	0.0	-0.6	88.0	450.9	0.0	1693.6	14.9
50	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.30	0.0	0.0	0.0	-0.0	-0.7	453.8	0.0	1781.0	14.3
49	53	PL 3t 3/4"	0.009	0.010	0.002	1.45	1.50	1.45	0.30	0.1	0.0	0.0	-0.0	-0.7	453.8	0.0	1780.3	14.3
48	32	AS 3t 5/8"	0.006	0.006	0.002	1.45	1.50	1.45	0.30	0.0	0.0	0.0	-0.0	-0.7	453.9	0.0	1779.5	14.3
47	274	HR17-4 seria	0.969	1.000	0.247	0.58	0.60	1.03	0.30	2.9	0.0	0.0	-0.6	88.0	454.0	0.0	1778.9	14.3
46	32	AS 3t 5/8"	0.006	0.006	0.002	1.46	1.50	1.46	0.30	0.0	0.0	0.0	-0.0	-0.7	456.8	0.0	1866.2	13.8
45	53	PL 3t 3/4"	0.009	0.010	0.002	1.46	1.50	1.46	0.30	0.1	0.0	0.0	-0.0	-0.7	456.9	0.0	1865.6	13.8



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
44	32	AS 3t 5/8"	0.006	0.006	0.002	1.46	1.50	1.46	0.30	0.0	0.0	0.0	-0.0	-0.7	457.0	0.0	1864.8	13.8
43	274	HR17-4 seria	0.971	1.000	0.238	0.58	0.60	1.03	0.30	2.9	0.0	0.0	-0.6	88.0	457.0	0.0	1864.1	13.8
42	32	AS 3t 5/8"	0.006	0.006	0.001	1.46	1.50	1.46	0.30	0.0	0.0	0.0	-0.0	-0.7	459.9	0.0	1951.5	13.3
41	53	PL 3t 3/4"	0.009	0.010	0.002	1.46	1.50	1.46	0.30	0.1	0.0	0.0	-0.0	-0.7	460.0	0.0	1950.9	13.3
40	32	AS 3t 5/8"	0.006	0.006	0.001	1.46	1.50	1.46	0.30	0.0	0.0	0.0	-0.0	-0.7	460.0	0.0	1950.1	13.3
39	274	HR17-4 seria	0.973	1.000	0.230	0.58	0.60	1.03	0.30	2.9	0.0	0.0	-0.6	88.0	460.1	0.0	1949.5	13.3
38	32	AS 3t 5/8"	0.006	0.006	0.001	1.46	1.50	1.46	0.30	0.0	0.0	0.0	-0.0	-0.7	463.0	0.0	2036.9	12.8
37	53	PL 3t 3/4"	0.009	0.010	0.002	1.46	1.50	1.46	0.30	0.1	0.0	0.0	-0.0	-0.7	463.1	0.0	2036.2	12.8
36	32	AS 3t 5/8"	0.006	0.006	0.001	1.46	1.50	1.46	0.30	0.0	0.0	0.0	-0.0	-0.7	463.1	0.0	2035.4	12.8
35	274	HR17-4 seria	0.975	1.000	0.222	0.59	0.60	1.03	0.30	2.9	0.0	0.0	-0.6	88.0	463.2	0.0	2034.8	12.8
34	32	AS 3t 5/8"	0.006	0.006	0.001	1.47	1.50	1.47	0.30	0.0	0.0	0.0	-0.0	-0.7	466.1	0.0	2122.2	12.4
33	53	PL 3t 3/4"	0.009	0.010	0.002	1.47	1.50	1.47	0.30	0.1	0.0	0.0	-0.0	-0.7	466.2	0.0	2121.5	12.4
32	32	AS 3t 5/8"	0.006	0.006	0.001	1.47	1.50	1.47	0.30	0.0	0.0	0.0	-0.0	-0.7	466.2	0.0	2120.8	12.4
31	274	HR17-4 seria	0.977	1.000	0.215	0.59	0.60	1.04	0.30	2.9	0.0	0.0	-0.6	88.0	466.3	0.0	2120.1	12.4
30	32	AS 3t 5/8"	0.006	0.006	0.001	1.47	1.50	1.47	0.30	0.0	0.0	0.0	-0.0	-0.7	469.2	0.0	2207.6	12.0
29	53	PL 3t 3/4"	0.009	0.010	0.002	1.47	1.50	1.47	0.30	0.1	0.0	0.0	-0.0	-0.7	469.2	0.0	2206.9	12.0
28	32	AS 3t 5/8"	0.006	0.006	0.001	1.47	1.50	1.47	0.30	0.0	0.0	0.0	-0.0	-0.7	469.3	0.0	2206.1	12.0



OOI Global PAPA Hybrid Profiler Mooring
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By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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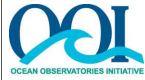
Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
27	181	1/2" MR	0.098	0.100	0.021	1.56	1.60	0.98	0.30	0.7	0.0	0.0	-0.2	-15.2	469.7	0.0	2199.3	12.1
26	32	AS 3t 5/8"	0.006	0.006	0.001	1.47	1.50	1.47	0.30	0.0	0.0	0.0	-0.0	-0.7	470.1	0.0	2190.1	12.1
25	53	PL 3t 3/4"	0.009	0.010	0.002	1.47	1.50	1.47	0.30	0.1	0.0	0.0	-0.0	-0.7	470.2	0.0	2189.4	12.1
24	33	AS 5t 3/4"	0.009	0.010	0.002	1.47	1.50	1.47	0.30	0.1	0.0	0.0	-0.0	-1.1	470.2	0.0	2188.7	12.1
23	94	Swivel 5t	0.024	0.025	0.005	1.17	1.20	1.17	0.30	0.1	0.0	0.0	-0.0	-5.3	470.3	0.0	2187.6	12.1
22	33	AS 5t 3/4"	0.009	0.010	0.002	1.47	1.50	1.47	0.30	0.1	0.0	0.0	-0.0	-1.1	470.5	0.0	2182.2	12.2
21	53	PL 3t 3/4"	0.009	0.010	0.002	1.47	1.50	1.47	0.30	0.1	0.0	0.0	-0.0	-0.7	470.5	0.0	2181.1	12.2
20	33	AS 5t 3/4"	0.009	0.010	0.002	1.47	1.50	1.47	0.30	0.1	0.0	0.0	-0.0	-1.1	470.6	0.0	2180.4	12.2
19	478	Dual Release	0.282	0.288	0.061	1.17	1.20	0.88	0.30	1.7	0.0	0.0	-0.3	-61.0	470.7	0.0	2179.3	12.2
18	480	1/2" dropcha	0.023	0.024	0.005	1.56	1.60	0.98	0.30	0.2	0.0	0.0	-0.0	-6.8	472.4	0.0	2118.0	12.6
17	76	ML 17t 1-1/4	0.025	0.026	0.006	1.46	1.50	1.46	0.30	0.2	0.0	0.0	-0.0	-4.8	472.6	0.0	2111.1	12.6
16	34	AS 6t 7/8"	0.012	0.012	0.003	1.46	1.50	1.46	0.30	0.1	0.0	0.0	-0.0	-1.6	472.8	0.0	2106.2	12.7
15	53	PL 3t 3/4"	0.009	0.010	0.002	1.46	1.50	1.46	0.30	0.1	0.0	0.0	-0.0	-0.7	472.8	0.0	2104.7	12.7
14	32	AS 3t 5/8"	0.006	0.006	0.001	1.46	1.50	1.46	0.30	0.0	0.0	0.0	-0.0	-0.7	472.9	0.0	2103.9	12.7
13	181	1/2" MR	0.098	0.100	0.022	1.56	1.60	0.98	0.30	0.7	0.0	0.0	-0.2	-15.2	473.3	0.0	2097.1	12.8
12	32	AS 3t 5/8"	0.006	0.006	0.001	1.46	1.50	1.46	0.30	0.0	0.0	0.0	-0.0	-0.7	473.7	0.0	2087.9	12.8
11	64	EL 6t 7/8"	0.012	0.012	0.003	1.46	1.50	1.46	0.30	0.1	0.0	0.0	-0.0	-1.0	473.8	0.0	2087.2	12.8



OOI Global PAPA Hybrid Profiler Mooring
designed for 4221m Depth, parking position



By: M. Lankhorst	27-Jan-2014	DCN: 3203-00010	REV: B	REF.DES. GP02HYPM
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Source: 27-Jan-2014 11:31:38, .../projects/ooi/current/gp02hypm/gp02hypm_bak20140124.cfg

Author: 27-Jan-2014 11:31:50, mlankhorst@sendlab01(GLNX86)

Event #003 – Simulation Parameter, cont.

Current Profile Reference: 3203-00007_CGSN_Site_Characterization_Station_Papa.pdf

#	ID	Element	Ax [	Ay m^2	Az]	Cx	Cy	Cz	Current [m/s]	Fx [	Fy	Fz kg	Fc	Fb]	Tx [	Ty kg	Tz]	Tilt [deg]
10	34	AS 6t 7/8"	0.012	0.012	0.003	1.46	1.50	1.46	0.30	0.1	0.0	0.0	-0.0	-1.6	473.9	0.0	2086.2	12.8
9	113	Nystron-1"	0.507	0.520	0.116	1.27	1.30	0.02	0.30	3.1	0.0	0.0	-0.7	-2.0	475.4	0.0	2083.3	12.9
8	34	AS 6t 7/8"	0.012	0.012	0.003	1.46	1.50	1.46	0.30	0.1	0.0	0.0	-0.0	-1.6	477.1	0.0	2081.9	12.9
7	64	EL 6t 7/8"	0.012	0.012	0.003	1.46	1.50	1.46	0.30	0.1	0.0	0.0	-0.0	-1.0	477.2	0.0	2080.4	12.9
6	34	AS 6t 7/8"	0.012	0.012	0.003	1.46	1.50	1.46	0.30	0.1	0.0	0.0	-0.0	-1.6	477.3	0.0	2079.3	12.9
5	183	3/4" MR	0.146	0.150	0.034	1.56	1.60	0.97	0.30	1.1	0.0	0.0	-0.3	-33.0	477.8	0.0	2064.4	13.1
4	33	AS 5t 3/4"	0.009	0.010	0.002	1.46	1.50	1.46	0.30	0.1	0.0	0.0	-0.0	-1.1	478.5	0.0	2044.4	13.2
3	53	PL 3t 3/4"	0.009	0.010	0.002	1.46	1.50	1.46	0.30	0.1	0.0	0.0	-0.0	-0.7	478.6	0.0	2043.4	13.2
2	34	AS 6t 7/8"	0.012	0.012	0.003	1.46	1.50	1.46	0.30	0.1	0.0	0.0	-0.0	-1.6	478.6	0.0	2042.6	13.2
1	522	double MACE	1.200	1.200	0.000	1.20	1.20	1.20	0.30	7.1	0.0	0.0	0.0	-2742.1	478.7	0.0	2041.0	0.0