NCBF1C 06-29-2006 file name NCBF1A.MOR

WATER DEPTH= 499 m STATIC DEPTH OF TOP= 24 m DYNAMIC DEPTH OF TOP= 39.4m

CURRENT PROFILE		DEPTH (meters)			-56	30	100	200	300	400	500	
		VELOCITY (cm/sec)			100	50	50	50	50	50	0	
NODE	CODE	LNN	depth	buoyancy		drag	horiz X	current				tilt
#			meters	NODE	reserve	kgs	meters	cm/sec				degs
1	IO-34	1.2	39.4	190.0	150	4.4	105.1	50.0				1.3
2	SWIVL	0.2	40.6	-2.1	-40	0.1	105.1	50.0				1.4
3	PINGR	0.7	40.8	-4.1	-38	0.4	105.1	50.0				1.5
	ROPE9	10.0		0.1		1.1	183.9kg	(max tension)				
5	RCM-4*	0.5	51.5	-17.3	-34	1.2	104.8	50.0				2.5
	ROPE9	64.0		0.8		6.8	166.7kg	(max tension)				
13	RCM-4	0.8	115.9	-17.3	-17	1.2	100.6	50.0				5.8
	ROPE9	99.0		1.2		10.3	150.4kg	(max tension)				
19	ADCP	1.0	214.7	15.0	-1	6.1	87.0	50.0				11.0
	ROPE9	99.0		1.2		9.9	166.1kg	(max tension)				
25	RCM-4	0.8	312.2	-17.3	-17	1.2	64.9	50.0				16.5
	ROPE9	186.6		2.2		11.9	150.8kg	(max tension)				
36	BEN17	0.6	488.9	23.0	108	0.1	2.5	5.6				18.3
37	BEN17	0.6	489.4	23.0	85	0.1	2.3	5.3				16.2
38	BEN17	0.6	490.0	23.0	62	0.1	2.2	5.0				14.5
39	BEN17	0.6	490.6	23.0	39	0.1	2.0	4.7				13.2
40	BEN17	0.6	491.2	23.0	16	0.1	1.9	4.4				12.1
41	BEN17	0.6	491.8	23.0	-7	0.1	1.8	4.1				11.1
42	SWIVL	0.2	492.4	-2.1	-30	0.0	1.6	3.8				11.2
43	PINGR	0.6	492.6	-4.1	-28	0.0	1.6	3.7				11.4
44	RT661	0.9	493.1	-24.0	-24	0.0	1.5	3.4				12.4
	ROPE8	6.0		0.2		0.0	256.5kg	(max tension)				
48	BOTOM	0.0	499.9	0.0	0	0.0	0.0	0.1				0.0

ANCHOR FORCES: VERTICAL LOAD = 250 kg: HORIZONTAL LOAD = 55 kg

WHOI SAFE ANCHOR WT. [1.5X(ANCV+ANCH/.6)] = 512 kg wet wt.// 588 kg dry wt.

1/4" Spectra

NCBF1A 06-29-2006 file name NCBF1A.MOR

WATER DEPTH= 499 m STATIC DEPTH OF TOP= 24 m DYNAMIC DEPTH OF TOP= 44.5m

	CURRENT PROFILE	DEPTH (meters)			-56	30	100	200	300	400	500	
		VELOCITY (cm/sec)			100	50	50	50	50	50	0	
NODE	CODE	LNN	depth	buoyancy		drag	horiz X	current				tilt
#			meters	NODE	reserve		kgs	meters	cm/sec			degs
1	IO-34	1.2	44.5	190.0	142		4.4	120.7	50.0			1.3
2	SWIVL	0.2	45.7	-2.1	-48		0.1	120.7	50.0			1.4
3	PINGR	0.7	45.9	-4.1	-46		0.4	120.7	50.0			1.5
	ROPE1	10.0		-0.1			1.3	183.9kg	(max tension)			
5	RCM-4*	0.5	56.6	-17.3	-41		1.2	120.3	50.0			2.6
	ROPE1	64.0		-0.6			7.9	166.5kg	(max tension)			
13	RCM-4	0.8	120.9	-17.3	-23		1.2	115.8	50.0			6.4
	ROPE1	99.0		-1.0			11.9	148.7kg	(max tension)			
19	ADCP	1.0	219.5	15.0	-5		6.0	100.5	50.0			12.3
	ROPE1	99.0		-1.0			11.4	162.2kg	(max tension)			
25	RCM-4	0.8	316.3	-17.3	-19		1.2	75.4	50.0			19.0
	ROPE1	186.6		-1.9			13.1	144.9kg	(max tension)			
36	BEN17	0.6	489.0	23.0	108		0.1	2.9	5.5			21.5
37	BEN17	0.6	489.5	23.0	85		0.1	2.7	5.2			19.0
38	BEN17	0.6	490.1	23.0	62		0.1	2.5	4.9			16.9
39	BEN17	0.6	490.7	23.0	39		0.1	2.3	4.7			15.3
40	BEN17	0.6	491.2	23.0	16		0.1	2.2	4.4			13.9
41	BEN17	0.6	491.8	23.0	-7		0.1	2.0	4.1			12.8
42	SWIVL	0.2	492.4	-2.1	-30		0.0	1.9	3.8			12.9
43	PINGR	0.6	492.6	-4.1	-28		0.0	1.8	3.7			13.0
44	RT661	0.9	493.2	-24.0	-24		0.0	1.7	3.4			14.3
	ROPE8	6.0		0.2			0.0	245.2kg	(max tension)			
48	BOTOM	0.0	499.9	0.0	0		0.0	0.0	0.1			0.0

ANCHOR FORCES: VERTICAL LOAD = 237 kg: HORIZONTAL LOAD = 60 kg

WHOI SAFE ANCHOR WT. [1.5X(ANCV+ANCH/.6)] = 505 kg wet wt.// 580 kg dry wt.

1/4" Kevlar

Test designs

NCBF1B 06-29-2006 file name NCBF1A.MOR

WATER DEPTH= 499 m STATIC DEPTH OF TOP= 24 m DYNAMIC DEPTH OF TOP= 52.7m

					CURRENT PROFILE DEPTH (meters)	-56	30	100	200	300	400	500
					VELOCITY (cm/sec)	100	50	50	50	50	50	0
NODE	CODE	LNN	depth	buoyancy		drag	horiz X	current				tilt
#			meters	NODE	reserve	kgs	meters	cm/sec				degs
1	IO-34	1.2	52.7	190.0	91	4.4	138.0	50.0				1.3
2	SWIVL	0.2	53.9	-2.1	-99	0.1	138.0	50.0				1.4
3	PINGR	0.7	54.1	-4.1	-96	0.4	138.0	50.0				1.5
	ROPEA	10.0		-1.3		1.1	183.9kg	(max tension)				
5	RCM-4*	0.5	64.8	-17.3	-91	1.2	137.6	50.0				2.5
	ROPEA	64.0		-7.7		6.8	165.3kg	(max tension)				
13	RCM-4	0.8	129.1	-17.3	-66	1.2	133.3	50.0				6.2
	ROPEA	99.0		-12.0		10.2	140.5kg	(max tension)				
19	ADCP	1.0	227.7	15.0	-37	6.0	117.9	50.0				12.7
	ROPEA	99.0		-12.0		9.7	143.0kg	(max tension)				
25	RCM-4	0.8	324.0	-17.3	-40	1.2	91.2	50.0				21.5
	ROPEA	186.6		-22.5		10.1	115.5kg	(max tension)				
36	BEN17	0.6	489.1	23.0	108	0.1	3.2	5.5				27.0
37	BEN17	0.6	489.6	23.0	85	0.1	3.0	5.2				22.7
38	BEN17	0.6	490.2	23.0	62	0.1	2.7	4.9				19.5
39	BEN17	0.6	490.7	23.0	39	0.1	2.5	4.6				17.0
40	BEN17	0.6	491.3	23.0	16	0.1	2.4	4.3				15.1
41	BEN17	0.6	491.9	23.0	-7	0.1	2.2	4.1				13.6
42	SWIVL	0.2	492.5	-2.1	-30	0.0	2.1	3.8				13.8
43	PINGR	0.6	492.7	-4.1	-28	0.0	2.0	3.7				14.0
44	RT661	0.9	493.2	-24.0	-24	0.0	1.9	3.4				15.7
	ROPE8	6.0		0.2		0.0	195.0kg	(max tension)				
48	BOTOM	0.0	499.9	0.0	0	0.0	0.0	0.1				0.0

ANCHOR FORCES: VERTICAL LOAD = 187 kg: HORIZONTAL LOAD = 52 kg

WHOI SAFE ANCHOR WT. [1.5X(ANCV+ANCH/.6)] = 410 kg wet wt.// 471 kg dry wt.

1/4" Wire