| EMISSIONS | OIL | FERROUS | FREIGHT | AGRI | METALS | ENERGY | PHYSICAL FREIGHT |

FFA Options Report

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Monday 12th September 2022

Weekly Options Summary

Not much actual trading in the Options market this last week but to suggest it was immaterial would be a misconception. Cape volatilities saw a raise of **18 vols** in the December contract on the back of really not that much.

A sign of something to come?

Let's hope so!

CAPESIZE: Despite being a quiet week, as mentioned, we see vols get raised 18 vols in the dec contract as Q4 15k puts were purchased on Friday. Quite a considerable raise in fairness, perhaps we're about to see some volatility in the underlying. Q4 12500/20000 collar trades 9 cent off our valuation so no need to adjust skews.

PANAMAX: Not much to report on the Panamaxs. We saw three trades on the week. A Q4 1 by 2 Call spread, a Q4 three-way and a Sep 14k Put. All three traded within 70 cents of FIS Valuations and as a result we shall not move vols or skews at all.

SUPRAMAX: Vols going up seven in Q4 as we continue to see Q4 Calls trading above our valuations. Also the Q4 16/19k collar trades and lowers the 0.50 cals 1 vol relative to the new at the money vol.



Quiet week with vols going higher in Capes and Supras.

Volatility up considerably.

Nothing to report.

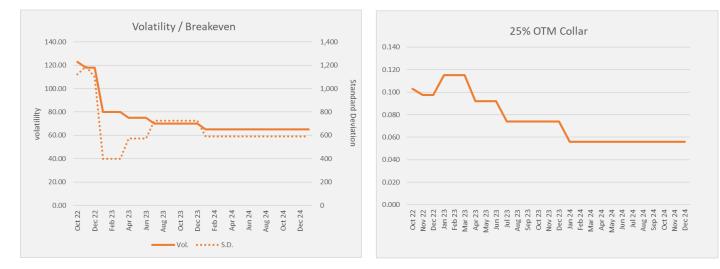
Vols creeping higher as Q4 calls continue to get purchased.

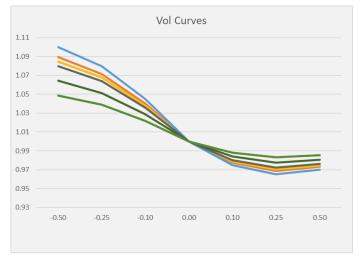
Freight Investor Services 2022.

Capesize — Options Curves

	Parame	eters							
Term	FUTS	S.D.	-0.50	-0.25	-0.10	0.00	0.10	0.25	0.50
Sep 22	7,650	622	11.90	9.52	5.36	129.00	-2.98	-4.17	-3.57
Oct 22	14,500	1,273	11.00	8.80	4.95	123.00	-2.75	-3.85	-3.30
Nov 22	16,000	1,354	10.00	8.00	4.50	118.00	-2.50	-3.50	-3.00
Dec 22	14,750	1,085	10.00	8.00	4.50	118.00	-2.50	-3.50	-3.00
Q4 22	14,925	573	8.00	6.40	3.60	80.00	-2.00	-2.80	-2.40
Q1 23	7,950	12,125	6.00	4.80	2.70	75.00	-1.50	-2.10	-1.80
Cal 23	13,250	726	4.50	3.60	2.03	70.00	-1.13	-1.58	-1.35
Cal 24	14,450	592	3.15	2.52	1.42	65.00	-0.79	-1.10	-0.95

	Weekly Trades						
Date	Trade	Price	Delta	Gamma	Theta	Vega	Rho
Wed 07 Sep	Cape Q2 23 12/17/22 call fly ≈11850 trades 800 30dpm	800	0.08	-0.01	1	-7	-785
Wed 07 Sep	Cape Oct22 10k Put x13000 trades 775 15dpm	775	-0.20	0.05	-32	12	490
Wed 07 Sep	Cape Q4 12,500/20k Collar x14000 trades 1000 30dpm	1000	-0.62	0.00	-4	0	-171
Mon 12 Sep	Cape Q4 15k P x14750 trades 3000 25dpm	3000	0.11	-0.07	36	-32	-720





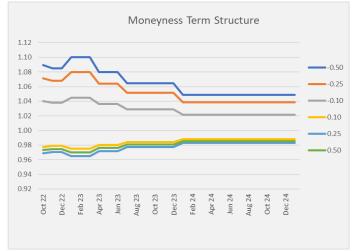


Chart sources: FIS

FIS

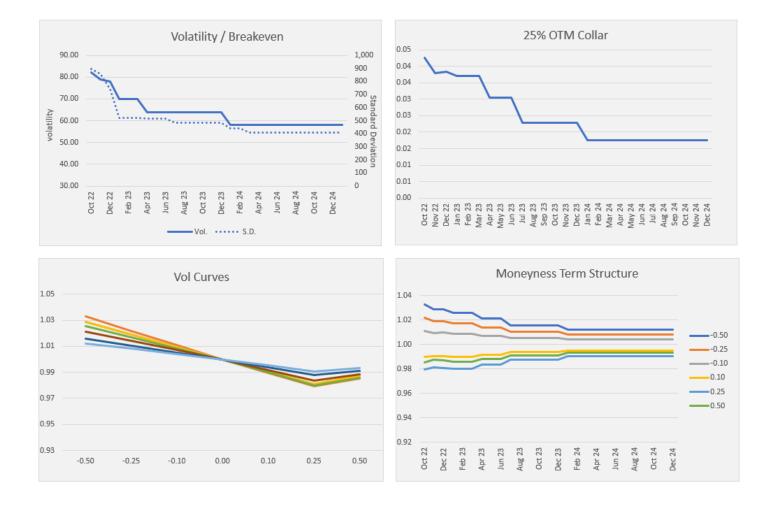
Capesize — **Option Price Indications**

	Sep 22 7.650									14 500					Nov 22 16.000									
CTDIVE	c sep		7,650 P		v				Oct 2		14,500 P	d		01		STRIKE			16,000 P	a	VOI			
STRIKE 1,500		d 51	0	d 0	_	OL .68	B.E.	STRIKE 1,500	C 12,991	d 100	0	d (0)	V(50	B.E.	1,500	14,483	d 100	0	(0)	VOL 1.39	B.E. 131		
3,000	· · · ·	51	ō	o		.60	302	-	11,492	100	ō	(0)			280	3,000	12,987	100	2	(0)	1.38	260		
4,500		71	0	(0)		.52	431	4,500	9,996	100	з	(0)			413	4,500	11,508	99	21	(1)	1.36			
6,000		71	0	(0)			546	6,000	8,520	99	27	(1)		43	541	6,000	10,076	98	88	(2)	1.34	508		
7,500	1,799 542	70 47	5 248	(1)		.33 .26	630 714	7,500 9,000	7,099 5,775	96 91	104 279	(4) (9)		41 38	665 785	7,500 9,000	8,725 7,480	95 91	235 488	(5) (9)	1.33 1.31	628 744		
10,500	74	11	1,280			.28	846	10,500	4,585	84	588	(16)		36	900	10,500	6,355	85	862	(15)	1.30	858		
12,000	6	1	2,711	(70) 1		981	12,000	3,554	75	1,056	(25)	1.	34	1,010	12,000	5,355	79	1,360	(21)		969		
13,500	0	0	4,205				1,120	13,500	2,672	65	1,672	(35)			1,106	13,500	4,478	72	1,981	(28)	1.27	1,077		
15,000 16,500	0	0	5,704 7,204				1,263 1,409	15,000 16,500	1,845 1,315	53 42	2,345 3,313	(47)		20 19	1,139	15,000	3,671	65 57	2,672	(35)	1.23	1,164		
18,000	ō	ō	8,703				1,558	18,000	945	33	4,443	(67)			1,361	18,000	2,309	50	4,307	(50)	1.15	1,299		
19,500	0	0	10,203	3 (71)) 1		1,712	19,500	677	26	5,674	(74)	1.	21	1,482	19,500	1,893	43	5,389	(57)	1.15	1,412		
21,000	0	0	11,703				1,869	21,000	485	20	6,980	(80)			1,603	21,000	1,554	37	6,548	(63)	1.15	1,525		
22,500 24,000	0	0	13,202 14,702				2,029 2,194	22,500 24,000	347 250	15 11	8,342 9,743	(85) (89)			1,727 1,851	22,500 24,000	1,278 1,054	32 28	7,771 9,045	(68) (72)	1.16 1.16	1,640 1,755		
25,500	ō	ō	16,201				2,361	25,500	180	9	11,172	(91)			1,976	25,500	872	24	10,361	(76)	1.16	1,871		
27,000	0	0	17,701				2,533	27,000	131	6	12,622	(93)			2,103	27,000	723	20	11,711	(79)	1.17	1,988		
28,500	0	0	19,200				2,708	28,500	96	5	14,086	(95)			2,230	28,500	602	18	13,088	(82)	1.17	2,105		
30,000	0	0	20,700) (71)	1	.53 :	2,887	30,000	70	4	15,559	(96)	1.	25	2,359	30,000	503	15	14,487	(85)	1.18	2,223		
		: 22		,750					Q4	22	14,9	25					Q1 2	23	7,950					
STRIKE				Р	d	VOL	B.E.	STRIKE	_		d P	_		VOL		STRIKE	С	d	Р	d	VOL	B.E.		
1,50 3,00		31 1 45 1		0 12	(0) (0)	1.37 1.36	130 256	1,50 3,00					(0) (0)	1.26		1,50 3,00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 50	(0) (2)	0.89 0.87	84 164		
4,50				74	(2)	1.30	380	4,50					(0)	1.24		4,50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		266	(10)	0.87	242		
6,00				28	(4)		502	6,00					(2)	1.21	455	6,00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		724	(21)	0.84	318		
7,50				99	(9)	1.31	620	7,50					(4)	1.19		7,50			1,423	(35)	0.82			
9,00					(14)	1.30	735	9,00					(9)	1.17		9,00			2,241	(50)	0.76	432		
10,50 12,00			· · · · ·		(20) (26)	1.28 1.27	848 958	10,50 12,00	· · · ·				15) 23)	1.15		10,50 12,00		37 27	3,302 4,550	(63) (73)	0.73 0.74	486 558		
13,50			· · · · ·		(33)	1.24	1,053	13,50					32)	1.12		13,50		20	5,885	(80)	0.74	630		
15,00	0 3,24	49	60 3,	499	(40)	1.17	1,108	15,00	0 2,58	35 5	8 2,50)2 (41)	1.07	1,008	15,00	242	15	7,275	(85)	0.75	704		
16,50					(47)	1.15	1,192	16,50					51)	1.01		16,50		11	8,699	(89)	0.75	778		
18,00 19,50			· · · · ·		(53) (58)	1.15	1,302 1,415	18,00 19,50					60) 67)	1.00		18,00 19,50		8	10,147 11,610	(92) (94)	0.75	853 929		
21,00			· · ·		(63)	1.16	1,529	21,00			/		74)	1.01		21,00		5	13,083	(95)	0.76	1,006		
22,50		53	32 9,	092	(67)	1.16	1,643	22,50	0 663	3 2	1 8,07	72 (79)	1.01	1,438	22,50	49	4	14,563	(96)	0.76	1,083		
24,00				·	(71)	1.16	1,758	24,00			· · · ·		83)	1.02		24,00		3	16,048	(97)	0.77	1,161		
25,50 27,00				·	(75) (78)	1.17 1.17	1,874 1,991	25,50 27,00					86) 88)	1.02		25,50 27,00		2	17,535 19,026	(98) (98)	0.77 0.78	1,239 1,319		
28,50					(80)	1.17	2,108	28,50			· · · ·		91)	1.03		28,50		1	20,517	(98)	0.78	1,319		
30,00	0 63	2	17 15	,859	(82)	1.18	2,226	30,00	0 20	6 8	15,1	06 (92)	1.04	1,957	30,00	14	1	22,010	(99)	0.78	1,479		
	Cal	23	1	3,250					Cal	24	14,4	50												
STRIKE	0	:	d	Р	d	VOL	B.E.	STRIK	E (:	d P		d	VO	L B.E									
1,50		595		1	(0)	0.78		1,50		335 9			(0)	0.66										
3,00 4,50				28 147	(1) (4)	0.87	164 242	3,00		427 9 150 9			(1) (4)	0.66										
6,00				408	(9)	0.86		6,00			2 64		(7)	0.65										
7,50				827	(16)	0.82		7,50			7 1,13		12)	0.65										
9,00		03	76 1	,376	(24)	0.76		9,00			3 1,75	54 (16)	0.69			*nloa	co n	ote that	- all r	ricos			
10,50				,079	(31)	0.73	486	10,50			8 2,47		21)	0.65			-							
12,00 13,50				,906 ,815	(38)	0.74	558 630	12,00 13,50			3 3,26 9 4,13		26) 30)	0.64			areino	dicat	ive, for	live p	oricing	3		
15,00				,814	(50)	0.75		15,00			5,04		(35)	0.62			please get in contact							
16,50				,881	(55)	0.75		16,50			0 6,03		39)	0.61										
18,00	0 2,2	60		,994	(60)	0.75		18,00			5 7,09		44)	0.61										
19,50				,175	(64)	0.76		19,50			1 8,22		48)	0.61										
21,00 22,50				,415),695	(68) (71)	0.76		21,00 22,50			8 9,40 5 10,6		51) 54)	0.61										
24,00				2,012	(74)	0.70	1,161	24,00			2 11,8		57)	0.61										
25,50				8,355	(77)	0.77	1,239	25,50			9 13,1		60)	0.61										
27,00				4,718	(79)	0.78		27,00			6 14,4		63)	0.61										
28,50				5,099	(81)	0.78		28,50			4 15,7		65)	0.61										
30,00	0 81	.5	17 17	7,495	(82)	0.78	1,479	30,00	0 1,7	03 3	2 17,1	05 (67)	0.61	1 1,15	1								

Panamax — Options Curves

	Paramete	ers							
Term	FUTS	S.D.	-0.50	-0.25	-0.10	0.00	0.10	0.25	0.50
Sep 22	15,625	846	3.24	2.16	1.08	86.00	-1.02	-2.00	-1.44
Oct 22	17,375	898	2.70	1.80	0.90	82.00	-0.85	-1.70	-1.20
Nov 22	17,250	858	2.25	1.50	0.75	79.00	-0.75	-1.50	-1.00
Q4 22	16,550	738	2.25	1.50	0.75	78.00	-0.75	-1.50	-1.00
Q1 23	11,800	520	1.80	1.20	0.60	70.00	-0.70	-1.40	-1.00
Q2 23	12,800	516	1.35	0.90	0.45	64.00	-0.53	-1.05	-0.75
Cal 23	12,150	484	1.01	0.68	0.34	64.00	-0.39	-0.79	-0.56
Cal 24	11,250	444	0.71	0.47	0.24	58.00	-0.28	-0.55	-0.39

	Weekly Trades						
Date		Price	Delta	Gamma	Theta	Vega	Rho
Tue 06 Sep	Pmx Q4 15/20k 1by2 CS x14600 trades 735 30x60dpm	735	0.53	0.08	-23	24	887
Wed 07 Sep	Pmx Q4 14/10k PS vs 20k C x15750 trades 300 30dpm	300	-0.45	-0.01	1	-1	-106
Thu 08 Sep	Pmx Sep22 14k P x14500 trades 600 120dpm	600	-0.39	0.17	16	7	321





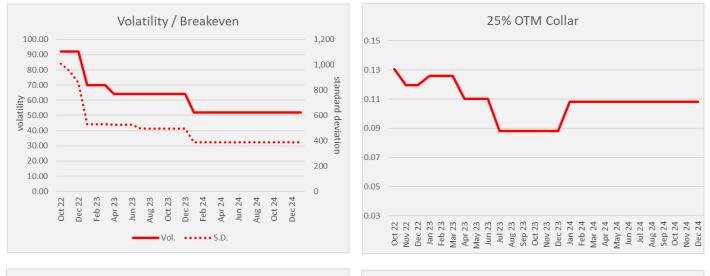
Panamax — Option Price Indications

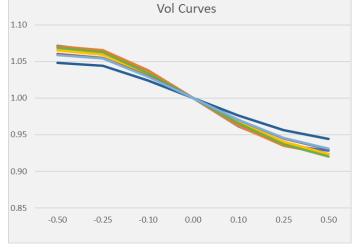
	Sep 22		15,625					Oct 22		17,375					Nov 22		17,250			
STRIKE	C	d	P	d	VOL	B.E.	STRIKE	C	d	P	d	VOL	B.E.	STRIKE	C	d	P	d	VOL	B.E.
1,500	12,245	51	0	0	1.03	97	1,500	15,864	100	0	(0)	0.92	87	1,500	15,732	100	0	(0)	0.85	81
3,000	10,745	51	0	0	1.01	192	3,000	14,365		0	(0)	0.91	172	3,000	14,234	100	0	(0)	0.85	160
4,500 6,000	10,027 8,527	71 71	0	(0) (0)	1.00 0.98	283 370	4,500 6,000	12,866 11,367		0	(0) (0)	0.90	255 337	4,500 6,000	12,735 11,238	100 100	0	(0) (0)	0.84 0.84	239 317
7,500	7,028	71	o	(0)	0.96	455	7,500	9,868	100	1	(0)	0.85	417	7,500	9,750	99	11	(1)	0.84	393
9,000	5,528	71	ō	(0)	0.95	536	9,000	8,375	100	6	(0)	0.87	496	9,000	8,290	98	49	(2)	0.83	469
10,500	4,029	71	0	(0)	0.93	614	10,500	6,902	98	32	(2)	0.87	573	10,500	6,894	95	152	(5)	0.82	544
12,000	2,540	70	11	(1)	0.91	689	12,000	5,489	94	117	(6)	0.86	649	12,000	5,602	89	358	(11)	0.82	617
13,500	1,200	57	171	(15)	0.89	761	13,500	4,189	87	317	(13)	0.85	723	13,500	4,450	81	704	(19)	0.81	690
15,000 16,500	357 56	28 7	827 2,026	(43)	0.88	827 874	15,000 16,500	3,059 2,128	76 63	685 1,254	(24)	0.84	796 864	15,000 16,500	3,458	72 62	1,211	(28)	0.81	761 828
18,000	6	1	3,475	(70)	0.85	962	18,000	1,395	49	2,019	(51)	0.81	921	18,000	1,934	51	2,683	(49)	0.78	888
19,500	1	0	4,969	(71)	0.86	1,053	19,500	883	36	3,006	(64)	0.80	988	19,500	1,405	41	3,652	(58)	0.78	953
21,000	0	0	6,468	(71)	0.87	1,146	21,000	554	25	4,177	(75)	0.81	1,070	21,000	1,030	33	4,776	(67)	0.78	1,031
22,500	0	0	7,968	(71)	0.87	1,240	22,500	341	17	5,463	(83)	0.81	1,153	22,500	751	26	5,995	(74)	0.78	1,109
24,000 25,500	0	0	9,467 10,967	(71) (71)	0.88 0.89	1,336 1.434	24,000 25,500	207 125	11 7	6,828 8,244	(89) (93)	0.82	1,237 1,322	24,000 25,500	547 398	20 15	7,289 8,638	(80) (84)	0.79	1,189 1.269
27,000	ŏ	ŏ	12,466	(71)	0.90	1.533	27,000	75	5	9,693	(95)	0.82	1,322	27,000	289	12	10,028	(88)	0.79	1,205
28,500	0	0	13,966	(71)	0.91	1,634	28,500	45	з	11,162	(97)	0.83	1,494	28,500	211	9	11,448	(91)	0.80	1,431
30,000	0	0	15,466	(71)	0.92	1,736	30,000	27	2	12,643	(98)	0.84	1,581	30,000	154	7	12,890	(93)	0.80	1,513
	Q4 22		16,550					Q1 23		11,80					Q2 23		12,800			
5TRIKE 1,50		d 100	P	d	VOL 0.87	B.E. 82	P 1.500	C	d 5 100	P	d	0.74	. <u>B.E.</u>	P 1.500	C	d 100	P	d (0)	VOL 0.66	B.E. 63
3,00			0	(0) (0)	0.87		3,000	8,781			(0) (0)	0.74		3,000		99	4	(0)	0.66	125
4,50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ŏ	(0)	0.86		4,500	7,312		29	(1)	0.73		4,500		98	44	(1)	0.66	187
6,00	0 10,544	4 100	5	(0)	0.85	321	6,000	1 C C		138	(5)	0.72	273	6,000	6,948	95	174	(5)	0.66	248
7,50	9,068	99	27	(1)	0.84	399	7,500	4,681	88	392	(11	·	. 340	7,500	5,723	89	442	(10)	0.65	309
9,00	,	97	90	(3)	0.84	475	9,000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		830	(21	·		9,000		82	875	(18)	0.65	369
10,50		93 87	224 465	(7) (13)	0.83	550 623	10,500	2,754		1,457				10,500 12,000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	74 65	1,472 2,217	(26)	0.65 0.64	428 486
13,50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	79	847	(21)	0.82	695	13,500			3,198				13,500		56	3,089	(43)	0.64	541
15,00		69	1,389	(31)	0.81	765	15,000	1,113		4,306		·		15,000		48	4,082	(51)	0.63	596
16,50	0 2,149	57	2,099	(42)	0.80	830	16,500	832	30	5,521	l (70	0.65	718	16,500	1,505	41	5,191	(59)	0.63	655
18,00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2,976	(54)	0.79		18,000		24	6,810				18,000	1,208	35	6,389	(65)	0.63	717
19,50	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		4,021	(64)	0.78		19,500	472	19	8,154				19,500	974	29	7,649	(70)	0.63	779 841
21,00		28	5,206 6,481	(72) (79)	0.79			359 275	15 12	9,537 10,94				21,000	788 641	25 21	8,958 10,305	(75) (79)	0.64	903
24,00		15	7,823	(84)	0.80				10	12,38					523	18	11,682	(82)	0.64	966
25,50	0 272	12	9,212	(88)	0.80	1,284	25,500	166	8	13,83	2 (92	0.71	1,139	25,500	429	15	13,082	(85)	0.64	1,029
27,00		9	10,633	(91)	0.80			130	6	15,29					354	13	14,501	(87)	0.64	1,092
28,50		6	12,077	(93)	0.81			103	5	16,76					293	11	15,935	(89)	0.64	1,156
30,00	0 103 Cal 23	5	13,538	(95)	0.81	1,533		82 Cal 24	4	18,23 11,250	8 (96	0.72	1,350	30,000	244	9	17,380	(90)	0.65	1,219
Р	C	d	P	d	VOL	B.E.	0	C	d	P	d	VOL I	B.E.							
1,500	10,604	100	1	(0)	0.68	64	1,500	9,813	99	7	(0)).59	56							
3,000		99	17	(1)	0.73	138	3,000	8,410		90			111							
4,500			96	(2)	0.73	206	4,500	7,162		328			166							
6,000 7,500			294 647	(7) (13)	0.72 0.72	273 340	6,000 7,500	6,092 5,189		743 1,326			222 276							
9,000			1,167	(21)	0.71	405	9,000		75	2,052			331							
10,500			1,847	(29)	0.71	469	10,500	3,791	69	2,899	(31)		385	*,	معجماه	noto	that all	nrice	as are	
12,000			2,665	(38)	0.70	528	12,000	3,250		3,844			438					•		
13,500			3,604	(46)	0.69	585	13,500	2,795		4,875			491	ind	dicative	e, for	live pri	cing	blease	
15,000 16,500			4,660	(54) (60)	0.69 0.69	650 718	15,000 16,500	2,413 2,101	51 46	5,979 7,152			544 598	get in contact						
18,000			5,818 7,047	(66)	0.69	787	18,000	1,839	40	8,376			653							
19,500		29	8,329	(71)	0.70	856	19,500	1,617		9,640			708							
21,000	842	25	9,654	(75)	0.70	926	21,000	1,428		10,936			763							
22,500		21	11,010	(78)	0.70	996	22,500	1,266		12,260			819							
24,000		19	12,393	(81)	0.71	1,067	24,000	1,126					874							
25,500 27,000		16 14	13,796 15,215	(83) (86)	0.71 0.71	1,139	25,500 27,000	1,005 901					930 986							
28,500		12	16,647	(87)	0.71	1,283	28,500	809		17,746			,041							
30,000		11	18,090	(89)		1,356	30,000	730					,098							

Supramax — Options Curves

	Paramete	ers							
Term	FUTS	S.D.	-0.50	-0.25	-0.10	0.00	0.10	0.25	0.50
Sep 22	16,750	1,034	7.00	6.25	3.75	98.00	-3.75	-6.25	-7.00
Oct 22	17,375	1,007	6.50	6.00	3.50	92.00	-3.50	-6.00	-7.00
Nov 22	16,375	949	6.00	5.50	3.00	92.00	-3.00	-5.50	-7.00
Dec 22	14,775	856	6.00	5.50	3.00	92.00	-3.00	-5.50	-7.00
Q4 22	16,175	529	4.80	4.40	2.40	70.00	-2.40	-4.40	-5.60
Q1 23	12,000	526	3.84	3.52	1.92	64.00	-1.92	-3.52	-4.48
Q2 23	13,050	495	3.07	2.82	1.54	64.00	-1.54	-2.82	-3.58
Cal 23	12,400	388	3.07	2.82	1.54	52.00	-1.54	-2.82	-3.58

	Weekly Trades						
Date	Trade	Price	Delta	Gamma	Theta	Vega	Rho
Mon 05 Sep	Smx Oct 26k Put trades 10550 live ≈16000 60dpm	10550	-0.95	0.02	-7	5	-978
Tue 06 Sep	Smx Q4 20k Call x15k trades 800 90dpm	800	0.26	0.06	-19	21	882
Tue 06 Sep	Smx Q4 21k Call x15k trades 600 90dpm	600	0.22	0.05	-17	19	814
Fri 09 Sep	Smx Q4 16/19k collar x16425 trades 900 30dpm	900	-0.79	0.00	-3	0	-138





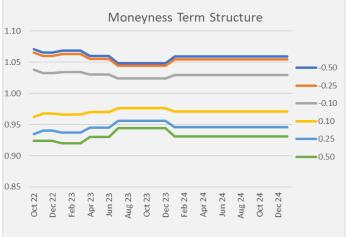


Chart sources: FIS

FIS

Supramax — Option Price Indications

	Sep 2	2	16,750					Oct 22		16,700					Nov 22	,	16,000				
STRIKE		ď	P	Ь	VOL	B.E. S	TRIKE	C	d	P	Ь	VOL	B.E.	STRIKE	C	d	P	Ь	VOL	B.E.	
1,50	15,203	51	0	0	1.15	108	1,500	15,189	100	0	(0)	1.02	97	1,500	14,483	100	0	(0)	1.01	95	
3,000	13,703	51	0	0	1.14	215	3,000	13,690	100	0	(0)	1.02	192	3,000	12,985	100	0	(0)	1.00	190	
4,50	12,203	51	0	0	1.12	319	4,500	12,191	100	0	(0)	1.01	287	4,500	11,488	100	1	(0)	1.00	283	
6,00	1 C C		0	(0)	1.11	421	6,000	10,693	100	0	(0)	1.01	381	6,000	10,001	99	12	(1)	1.00	376	
7,50		71	0	(0)	1.10	521	7,500	9,197	100	4	(0)	1.00	474	7,500	8,550	98	60	(2)	0.99	469	
9,000	1 T	71	0	(0)	1.09	619	9,000	7,718	99	24	(1)	1.00	567	9,000	7,174	94	182	(5)	0.99	560	
10,50	1 C C	71	0	(0)	1.08		10,500	6,290	96	95	(4)	0.99	658	10,500	5,912	89	419	(11)	0.98	651	
12,00		71	0	(0)	1.07		12,000	4,963	90	267	(10)	0.99	748	12,000	4,794	82	799	(18)	0.98	741	
13,50	1 C C	70	10	(1)	1.06		13,500	3,788	81	590	(19)	0.99	838	13,500 15,000	3,832	73	1,334	(27)	0.98	830	
15,000		62 41	123 563	(9)	1.05		15,000 16.500	2,798	70 57	1,099	(30)	0.98	926 968	16,500	2,981	64 54	1,982	(36)	0.96	902 936	
18.000		17	1,476	(55)	0.92		18.000	1,194	43	2,493	(56)	0.87	983	18,000	1,562	44	3,560	(56)	0.86	980	
19,50		4	2,811	(67)	0.90		19,500	745	31	3,543	(69)	0.85	1,047	19,500	1,131	35	4,627	(65)	0.85	1,047	
21,000	9 4	1	4,279	(71)	0.89		21,000	450	21	4,747	(79)	0.84	1,115	21,000	803	27	5,797	(72)	0.84	1,112	
22,50	0 0	0	5,774	(71)	0.88	*****	22,500	261	14	6,057	(86)	0.83	1,181	22,500	559	21	7,052	(79)	0.83	1,175	
24,000	0 0	0	7,273	(71)	0.87	*****	24,000	146	9	7,440	(91)	0.82	1,245	24,000	382	15	8,373	(84)	0.82	1,236	
25,50		0	8,773	(71)	0.86		25,500	78	5	8,872	(95)	0.81	1,308	25,500	256	11	9,745	(89)	0.81	1,294	
27,00		0	10,272	(71)	0.85		27,000	40	3	10,333	(97)	0.80	1,369	27,000	168	8	11,155	(92)	0.79	1,350	
28,50		0	11,772	(71)	0.84		28,500	20	2	11,812	(98)	0.80	1,428	28,500	107	5	12,593	(94)	0.78	1,404	
30.000	Q4 22	0	13.271 15,834	(71)	0.83		30.000	10 Q12	1 23	13.300 11,55((99)]	0.79	1.485	30.000	67 Q2 23	4	14.051 12,450	(96)	0.77	1.456	
STRIKE	C	Ь	P	Ы	VOL	B.E.	STRI		Ь	P	d	VOL	B.E.	STRIKE	C	Ы	P	Ь	VOL	B.E.	
1,500	14,318	100	0	(0)	1.01	96	1,5	00 ####	# 100	0 0	(0)	0.76	72	1,500	10,909	100	0	(0)	0.69	65	
3,000	12,820	100	0	(0)	1.01	190	3,0	00 8,53	3 100	4	(0)	0.76	143	3,000	9,422	99	7	(0)	0.68	129	
4,500	· · · ·	100	4	(0)	1.00	284	4,5			40	(2)	0.75	214	4,500	7,980	98	60	(2)	0.68	193	
6,000	9,846	99	23	(1)	1.00	378	6,0			174	(6)	0.75	284	6,000	6,645	94	219	(6)	0.68	257	
7,500	8,407	97	83	(2)	0.99	470	7,5			468	(13)	0.75	353	7,500	5,462	88	530	(12)	0.68	320	
9,000	7,039	94	213	(6)	0.99	562	9,0			953	(22)	0.75	422	9,000	4,448	80	1,011	(19)	0.68	383	
10,500	5,775	89	447	(11)	0.99	653	10,5			1,591	(33)	0.73	482	10,500	3,579	72	1,636	(28)	0.67	442	
12,000 13,500	4,643	82	814	(18)	0.98	743 828	12,0	_,		2,323	(44)	0.69	519 559	12,000 13,500	2,809	63	2,361	(37)	0.65	490 528	
15,000	3,652 2,775	74 64	1,321 1,942	(26) (36)	0.97	828	13,5	· · · ·		-,	(56)	0.66	612	13,500	2,136	54 45	3,182 4,163	(46) (55)	0.62	528	
16,500	1,996	53	2,662	(47)	0.90	937	16,5				(74)	0.65	663	16,500	1,025	37	5,280	(62)	0.60	624	
18,000	1,392	43	3,556	(57)	0.86	978	18,0			- /	(81)	0.63	714	18,000	952	31	6,482	(69)	0.59	674	
19,500	978	33	4,641	(67)	0.85	1,044	19,5				(86)	0.62	762	19,500	725	25	7,749	(75)	0.59	724	
21,000	678	25	5,838	(75)	0.84	1,110	21,0	00 190	10		(90)	0.61	809	21,000	549	20	9,067	(80)	0.58	772	
22,500	463	18	7,122	(82)	0.83	1,174	22,5	00 12	5 7	11,048	(93)	0.60	854	22,500	413	16	10,426	(84)	0.58	820	
24,000	312	13	8,469	(87)	0.82	1,236	24,0			12,500	(95)	0.59	897	24,000	310	13	11,817	(87)	0.57	866	
25,500	207	9	9,863	(91)	0.81	1,296	25,5			13,967	(97)	0.58	939	25,500	231	10	13,233	(90)	0.57	912	
27,000	136	7	11,290	(93)	0.80	1,354	27,0			15,445		0.58	979	27,000	172	8	14,668	(92)	0.56	956	
28,500 30,000	89 57	4	12,741 14,207	(95) (97)	0.79	1,410 1,464	28,5			16,929		0.57		28,500 30,000	127 93	6 5	16,117	(94)	0.56	1,000	
30,000	Cal 23		14,207		0.77	1,404	30,0		124	18,417 11,7		0.50		30,000	35	5	17,578	(95)	0.55	1,042	
STRIKE	C	Ы	P	d	vo	L B.E	STR		С	d P	c	i vo)L В	.E.							
1,500	10,629	100	1	(0)	0.7	0 66	1,	500 10	,131	99 3	(0) 0.9	55 5	2							
3,000	9,154	99	19	(1)	0.7	0 132	3,	000 8,	701	98 59	(1	.) 0.9	55 1	⁰⁴ Co	ontac	t					
4,500		97	107	(3)					403					56		-					
6,000		93	320	(7)					272					08							
7,500		86	693	(13)					308						n Gou						
9,000		79	1,234	(21)						76 1,77					otions	Bro	ker				
10,500		70	1,904	(29)						69 2,52				52							
12,000	2,839	62	2,666	(38)						62 3,36				91 28 +4	+44 (0) 7738726551						
13,500 15,000		53 45	3,540 4,563	(47) (55)					532 088	55 4,29 48 5,33					+44 (0) 207 090 1120						
16,500		38	4,563	(62)						48 5,33 42 6,45				⁰⁸ +2	+4 (0)	20	/ 090 1	.120)		
18,000	1,110	32	6,910	(68)						37 7,66				53							
19,500	888	26	8,181	(73)						32 8,91					nG@f	freic	htinve	stor.	com		
21,000	712	22	9,499	(78)						28 10,19				37							
22,500	572	18	10,852	(81)						25 11,52				79							
24,000	461	15	12,235	(84)		9 888	3 24,	000 7	10	21 12,86				20							
25,500	372	13	13,640	(87)	0.5	8 939	i 25,	500 5	95	19 14,23	89 (8:	1) 0.4									
27,000	302	10	15,062	(89)						16 15,62				00							
28,500	245	9	16,499	(91)						14 17,03				39							
30,000	199	7	17,947	(92)	0.5	7 107	0 30,	000 3	352	12 18,49	3 (8)	7) 0.4	46 8	78							

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