## **AAII San Diego Options Trading SIG**

#### **Calendar Spreads II**

#### &

### High Probability SPX Put Credit Spread

November 18, 2023

• Previous meetings: <u>www.aaiisandiego.com/sub-groups/options-trading/</u>

### **Flexible Meeting Fees**

- Voluntary contributions pay for our expenses.
- Many generous, voluntary online contributions were made during COVID
- Thank You.
- Ways contribute:
  - Cash or check
  - https://www.paypal.com/donate/?hosted\_button\_id=2 M5F9F7L4C2HU
  - Use this QR code





# Presentation Outline

### **Market Description**

### Calendar Spreads

### SPX Put Credit Spread

# Why Options?

Options allow an investor to achieve a variety of objectives:

- <u>Risk Reduction</u>: protect stock holdings from a decline in market price (long puts).
- <u>Generate income (calendars, credit spreads)</u>.
- <u>Stock acquisition</u> at a lower price (short puts).
- <u>Market speculation</u> at lower risk and greater reward (long calls).

## **Underlying Assets**

- Stock (TSLA, AAPL, AMZN)
- ETF (SPY, QQQ, IWN)
- Index (SPX, VIX, RUT, NDX)
- Futures (/ES, /MES, /NQ)

# The Market

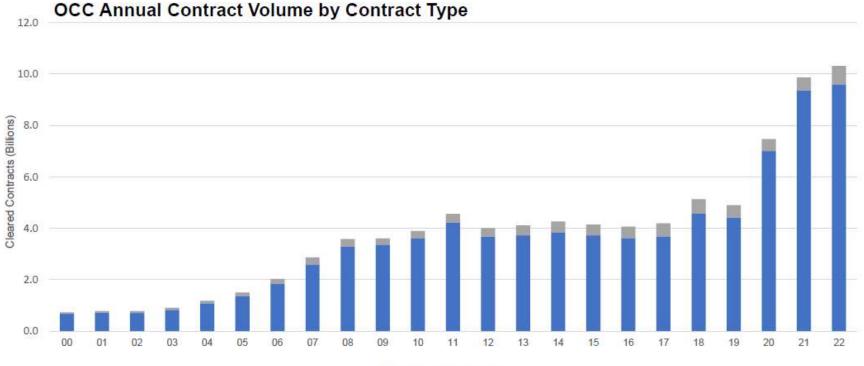
Options are traded through your **brokerage firm** at **Exchanges**. Trade transactions are cleared through the Options Clearing Corporation (OCC).

- Markets are fragmented, anonymous and 90% electronic.
- Every trade has a buyer and a seller, but one initiator.
- There is information in every quote and every trade.

# Options Clearing Corporation (OCC)

- Established in 1973
- Owned by the major exchanges (*i.e.* CBOE, AMEX, PHLX, PSE)
- Regulated by the SEC
- Main role: to act as a performance guarantor for all options

# Annual Options Volume 2000-2022





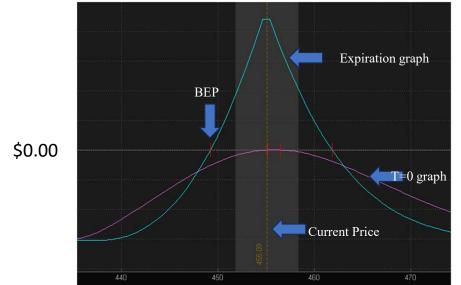
## Calendar Spread

- 1. Uses options with different expirations but same strike.
- 2. <u>Sell</u> the near-term option, <u>buy</u> the longer-term option.
  - short strike in front month
  - long strike in back month
- 3. Both options are the same type (call or put).
- 4. Best used in a sideways market with low volatility.
- 5. Profit from time decay and increased implied volatility.

# Trade Setup Parameters

- Strike (usually ATM)
- Front Month Expiration
- Calendar Width: time between expirations

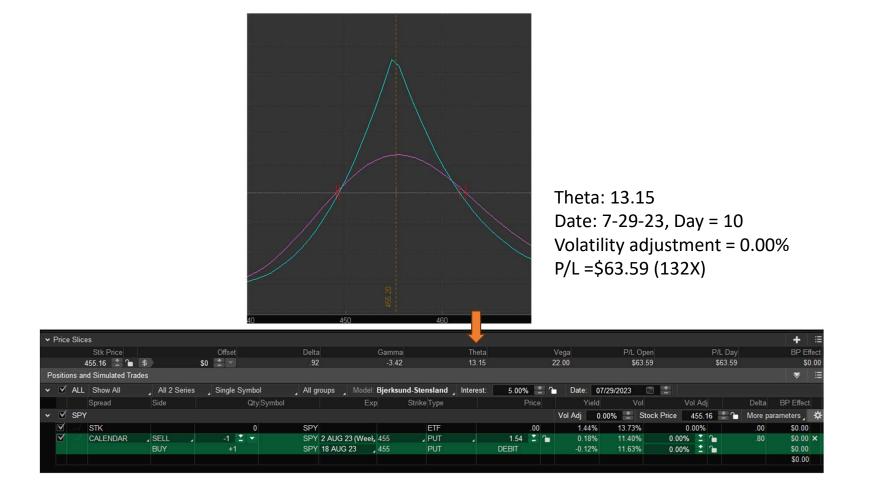
### SPY Put Calendar at Start



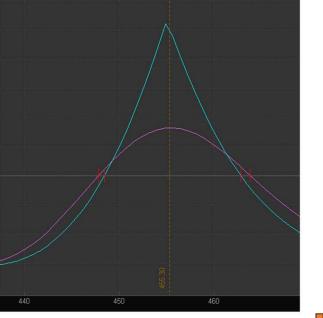
Theta: 4.5 Date: 7-19-23, Day = 0 Volatility adjustment = 0.00% P/L = \$0.48

✓ Prie	ice	Slices	e									+ 3
			Stk Price		Offset	Delta	Gamma	Theta	Vega	P/L Open	P/L Day	BP Effec
			55.13 📑 🚡	\$	\$0 🚍 🔤	.85	-1.25	4.50	16.06	(\$0.48)	(\$0.48)	(\$41.70
Posi	ition		d Simulated Trad									▼ ::
~ 8	× .	ALL	Show All	All 2 Series	Single Symbol	All groups	Model: Bjerksund-Stensla	nd Interest:	5.00% 🖆 🍗 Da	ate: 07/19/2023 🗂 🚢		
		\$	Spread	Side	Qty Symbol		Exp Strike Typ	e	Price	Yield Vol	Vol Adj D	elta BP Effect
• 8	<b>X</b> 3	SPY							Vol Ad	dj 🛛 0.00% 🚆 Stock Price	e 455.13 🖹 🍗 Mo	ore parameters 🖌 🛠
2	1	27	STK		0	SPY	ETF		.00	1.44% 13.74%	0.00%	.00 \$0.00
M	1	20	CALENDAR	SELL 2	-1 🔮 💌	SPY 2 AUG 2	23 (Weel, 455 💋 PUT		1.54 📫 🍗 🛛 🔘	0.12% 11.41% 0.	.00% 📫 🍗	.84 (\$6,816.60) ×
				BUY	+1	SPY 18 AUG	23 455 PUT	DE	EBIT -(	0.10% 11.62% 0.	00% 📫 🍗	\$6,774.90
												(\$41.70)

### SPY Put Calendar (at Day 10)



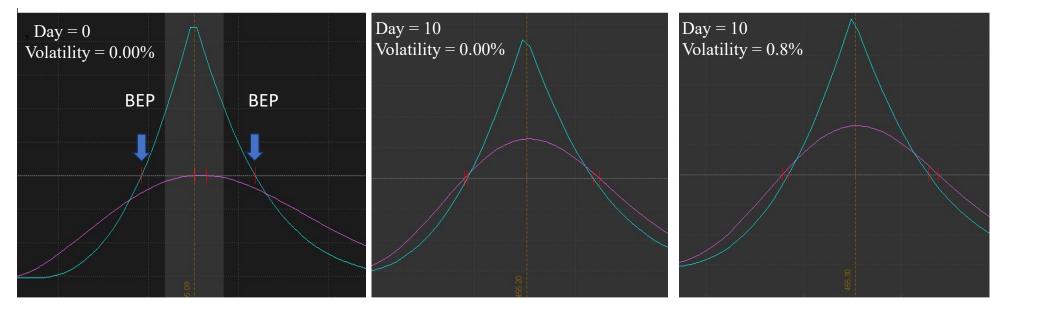
### SPY Put Calendar (at Day 10 with volatility increase)



Theta: 14.09 Date: 7-29-23, Day = 10 Volatility adjustment = 0.80% P/L =\$81.62 (170X)

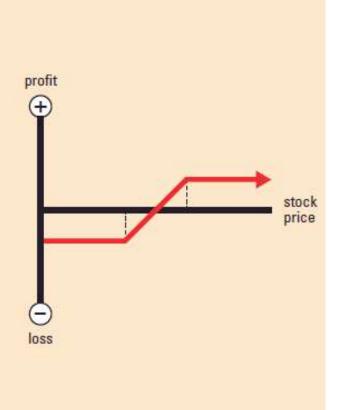
<ul> <li>Price \$</li> </ul>	Slices										+
	Stk Price		Offset	Delta	Gamm	a The	ta Ve	ega	P/L Open	P/L Day	BP E
	455.31 📑 🎦	\$	\$0	.43	-3.1	9 14.0	09 22.	.04	\$81.62	\$81.62	5
Position	s and Simulated Trac	les									~
• 🖬 /	ALL Show All	All 2 Series	Single Symbol	All groups	Model: Bjerks	und-Stensland Intere	st: 5.00% 🗄 🍗	Date: 07/29	0/2023		
	Spread	Side	Qty Symb	ol	Exp	Strike Type	Price	Yield	Vol	Vol Adj	Delta BP Effe
· 🗹 :	SPY						٧	/ol Adj +0.80	% 📑 Stock Price	455.31 📫 🍗	More parameters
$\checkmark$	STK		0	SPY		ETF	.00	1.44%	14.53%	+0.80%	.00 \$0.0
$\mathbf{\mathbf{v}}$	CALENDAR	SELL .	-1 🗄 💌	SPY 2 AUG	23 (Week, 455	PUT 🖌	1.54 📑 🍗	0.18%	12.20% +0.3	80% 📫 油	.62 (\$5,432.72
		BUY	+1	SPY 18 AUC	G 23 455	PUT	DEBIT	-0.12%	12.43% +0.3	80% 📫 🍗	\$5,432.7

Calendar spreads profit from: 1) time decay and 2) increased volatility *if* the underlying price remains between the BEPs.



#### **Basic Guidelines for Calendar Spreads**

- 1. Avoid trading through earnings and ExDiv date (for stocks).
- 2. Buy the spread ATM.
- 3. The short options (front month) should expire in 7 to 40 days.
- 4. The long options (back month) should expire 7 to 14 days later.
- 5. Use the expiration or P/L graph throughout the trade.
- 6. Always have an exit plan and a profit target. Use a mental or real stop loss.
- 7. Adjust the trade at or near the break-even point:
- a) Open a second calendar spread at the current price, converting trade to a double calendar.
- b) Close the trade.

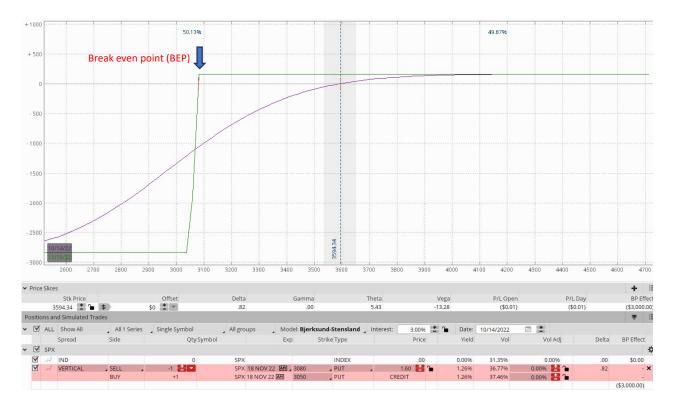


### Put Credit Spread

- Sell put and buy another put at lower strike with same expiration
- Market sentiment: neutral to bullish
- Limited risk and limited reward
- Time decay and stock price increase helps position

# Put Credit Spread

price-short strike = pts to BEP 3594-3080 = 514 pts to BEP



#### High Probability Put Credit Spreads in SPX

Sell a put and buy another put at lower strike with same expiration

Sell far OTM puts, (ex.  $4\Delta$ )

Buy puts 40-50 points lower

Start trade after a market sell-off

Pay attention to the "Expected Move" and ...

consider the distance between the current price and the short strike: how many points until the short is ITM (i.e. at the BEP)?

### SPX 6 Month Daily Chart



#### SPX Daily Price Chart (11-15-23) and Put Credit Spread Durations



## SPX Option Chain (on 11-15-23)

SPX	500 INDEX 4	502.88 +7.18 B: 4474.23 +0 15% A: 4516.68								
✓ Underlying										
	Last X	Net Chng	Bid X	Ask X	Size	Volume	Open	High	Low	Expected Move
	4502.88	+7.18	4474.23	4516.68	N/A	N/A	4505.30	4521.17	4495.31	
	Last Size 0	Yield N/A	PE N/A	Div N/A	Div.Freq	Ex Div.Date N/A	52High 4607.07	52Low 3764.49	Shares 0	Jeta 1.0
> Trade Grid	V	10/A	INA	IWA		INA	4001.07	5104.45	v	1.0
The communication of the	Filter: Off Spread: Single	Layout: Open Interest, Vo	lume, Impl Vol, Theta,							
	(0) 100 (Weeklys)									8.39% (±2.277)
the second se	(1) 100 (Weeklys)									14.65% (±25.358)
> 17 NOV 23 A	団 (1) 100									12.51% (±29.44)
> 17 NOV 23	2) 100 (Weeklys)									14.47% (±36.985)
	5) 100 (Weeklys)									10.95% (±45.338)
> 21 NOV 23	(6) 100 <b>(Weeklys)</b>									11.34% (±51.57)
	(7) 100 (Weeklys)									11.70% (±57.578)
	(9) 100 <b>(Weeklys)</b>									11.31% (±63.269)
> 27 NOV 23	(12) 100 (Weeklys)									11.16% (±72.246)
> 28 NOV 23	(13) 100 <b>(Weeklys)</b>									11.59% (±78.133)
> 29 NOV 23	(14) 100 <b>(Weeklys)</b>									11.98% (±83.849)
> 30 NOV 23	(15) 100 <b>(Weeklys)</b>									12.31% (±89.218)
> 1 DEC 23	(16) 100 (Weeklys)									12.59% (±94.272)
> 4 DEC 23	(19) 100 (Weeklys)									12.27% (±100.199)
> 5 DEC 23	(20) 100 <b>(Weeklys)</b>									12.52% (±104.92)
> 6 DEC 23	(21) 100 <b>(Weeklys)</b>									12.75% (±109.509)
> 7 DEC 23	(22) 100 <b>(Weeklys)</b>									12.94% (±113.778)
> 8 DEC 23	(23) 100 (Weeklys)									13.31% (±119.684)
> 11 DEC 23	(26) 100 <b>(Weeklys)</b>									13.04% (±124.721)
> 12 DEC 23	(27) 100 (Weeklys)									13.36% (±130.235)
> 13 DEC 23	(28) 100 <b>(Weeklys)</b>									13.79% (±136.914)
> 14 DEC 23	(29) 100 (Weeklys)									13.94% (±140.87)
> 15 DEC 23										13.70% (±140.158)
> 15 DEC 23	(30) 100 <b>(Weeklys)</b>									14.07% (±144.631)
> 18 DEC 23	(33) 100 <b>(Weeklys)</b>									13.76% (±148.387)
	(34) 100 <b>(Weeklys)</b>									13.98% (±153.043)
	(35) 100 <b>(Weeklys)</b>									14.10% (±156.624)
	(36) 100 <b>(Weeklys)</b>									14.18% (±159.761)

### SPX Weekly Option Chain 30 DTE (on 11-15-23)

Strikes: ALL					PUTS			
Exp	Strike	Bid X	Ask X	Open.Int	Volume ,	Impl Vol	Theta _	Delta 🦼
10.7799741 L								14.22% (±146.125)
15 DEC 23	4045	4.00 C	4.10 C	203	N/A	21.97%	34	04
15 DEC 23	4050	4.00 C	4.20 C	1,744	N/A	21.82%	34	04
15 DEC 23	4055	4.10 C	4.20 C	232	N/A	21.67%	34	04
15 DEC 23	4060		4.30 G	596	N/A	21.51%	35	04
15 DEC 23	4065	4.20 C	4.40 C	220	N/A	21.41%	35	04
15 DEC 23	4070	4.30 C	4.50 C	565	N/A	21.29%	36	04
15 DEC 23	4075	4.40 C	4.50 C	884	N/A	21.14%	36	04
15 DEC 23	4080	4.40 C	4.60 C	2,082	N/A	20.98%	3 <mark>6</mark>	04
15 DEC 23	4085	4.50 C	4.70 C	461	N/A	20.86%	37	04
15 DEC 23	4090	4.60 C	4.80 C	444	N/A	20.74%	37	04
15 DEC 23	4095	4.70 C	4.90 C	229	N/A	20.62%	38	04
15 DEC 23	4100	4.80 C	5.00 C	3,685	N/A	20.50%	38	04
15 DEC 23	4105	4.90 C	5.10 C	346	N/A	20.37%	38	05
15 DEC 23	4110	5.00 C	5.20 C	428	N/A	20.25%	39	05
15 DEC 23	4115	5.10 C	5.30 C	193	N/A	20.12%	39	05
15 DEC 23	4120	5.20 C	5.40 C	536	N/A	19.99%	40	05
15 DEC 23	4125	5.30 C	5.60 C	4,735	N/A	19.89%	40	05
15 DEC 23	4130	5.40 C	5.70 C	910	N/A	19.76%	41	05
15 DEC 23	4135	5.50 C	5.80 C	989	N/A	19.62%	41	05
15 DEC 23	4140	5.60 C	5.90 C	395	N/A	19.48%	42	05
15 DEC 23	4145	5.70 C	6.00 C	395	N/A	19.34%	42	05
15 DEC 23	4150	5.90 C	6.20 C	2,089	N/A	19.26%	43	06
15 DEC 23	4155	6.00 C	6.30 C	305	N/A	19.11%	43	06
15 DEC 23	4160	6.10 C	6.40 C	244	N/A	18.97%	44	06
15 DEC 23	4165	6.20 C	6.60 C	152	N/A	18.85%	44	06
15 DEC 23	4170	6.40 C	6.70 C	354	N/A	18.73%	- 45	06
15 DEC 23	4175	6.50 C	6.90 C	1,184	N/A	18.61%	45	06

### SPX Monthly Chain 29 DTE AM settled (on 11-15-23)

Strikes: ALL					PUTS			
Exp	Strike	Bid X	Ask X	Open.Int	Volume _	Impl Vol	Theta 🖌	Delta 🖌
								14.11% (±144.301)
15 DEC 23	4045	3.80 C	4.00 C	3,322	N/A	21.92%	33	03
15 DEC 23	4050	3.90 C	4.10 C	33,620	N/A	21.82%	34	04
15 DEC 23	4055	3.90 C	4.20 C	786	N/A	21.67%	34	04
15 DEC 23	4060	4.00 C	4.20 C	1,175	N/A	21.51%	34	04
15 DEC 23	4065	4.10 C	4.30 C	1,175	N/A	21.41%	35	04
15 DEC 23	4070	4.20 C	4.40 C	3,317	N/A	21.30%	35	04
15 DEC 23	4075	4.20 C	4.40 C	12,397	N/A	21.09%	35	04
15 DEC 23	4080	4.30 C	4.50 C	1,776	N/A	20.98%	36	04
15 DEC 23	4085	4.40 C	4.60 C	1,439	N/A	20.87%	36	04
15 DEC 23	4090	4.50 C	4.70 C	2,510	N/A	20.75%	37	04
15 DEC 23	4095	4.50 C	4.80 C	676	N/A	20.59%	37	- 04
15 DEC 23	4100	4.60 C	4.90 C	69,552	N/A	20.46%	37	04
15 DEC 23	4105	4.70 C	5.00 C	553	N/A	20.34%	38	04
15 DEC 23	4110	4.80 C	5.10 C	5,959	N/A	20.22%	38	05
15 DEC 23	4115	4.90 C	5.20 C	354	N/A	20.09%	39	05
15 DEC 23	4120	5.00 C	5.30 C	1,612	N/A	19.96%	39	05
15 DEC 23	4125	5.10 C	5.40 C	11,974	N/A	19.83%	40	05
15 DEC 23	4130	5.20 C	5.50 C	5,850	N/A	19.69%	40	05
15 DEC 23	4135	5.30 C	5.60 C	2,440	N/A	19.56%	41	- 05
15 DEC 23	4140	5.40 C	5.70 C	4,346	N/A	19.42%	41	05
15 DEC 23	4145	5.60 C	5.80 C	1,957	N/A	19.31%	42	05
15 DEC 23	4150	5.70 C	5.90 C	36,476	N/A	19.17%	42	05
15 DEC 23	4155	5.80 C	6.10 C	3,697	N/A	19.06%	43	06
15 DEC 23	4160	6.00 C	6.20 C	7,343	N/A	18.95%	43	06
15 DEC 23	4165	6.10 C	6.30 C	5,337	N/A	18.80%	44	06
15 DEC 23	4170	6.20 C	6.50 C	3,410	N/A	18.68%	44	06
15 DEC 23	4175	6.40 C	6.60 C	12,329	N/A	18.56%	45	- 06

#### 30-day Weekly vs 29-day Monthly Open Interest SPX @ 4502 on 11-15-23

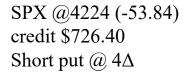
	Weekly		
		Monthly (Al	VI settled)
Strike	Open.Int	Open.Int _	
			Delta
4045	203	3,322	03
4050	1,744	33,620	04
4055	232	786	04
4060	596	1,175	04
4065	220	1,175	04
4070	565	3,317	04
4075	884	12,397	04
4080	2,082	1,776	04
4085	461	1,439	04
4090	444	2,510	04
4095	229	676	04
4100	3,685	69,552	04
4105	346	553	04
4110	428	5,959	05
4115	193	354	05
4120	536	1,612	05
4125	4,735	11,974	05
4130	910	5,850	05
4135	989	2,440	05
4140	395	4,346	05
4145	395	1,957	05
4150	2,089	36,476	05
4155	305	3,697	06
4160	244	7,343	06
4165	152	5,337	06
4170	354	3,410	06
4175	1,184	12,329	06

#### Start: SPX 17 NOV PCS on 10-20-23

#### 28 DTE, SPX down 53.84 (-1.26%)



Strikes: ALL					PUT	S		× ц
Exp	Strike	Bid X	Ask X	Open.Int	Volume		Theta	Delta
								21.83% (±204.202)
17 NOV 23	3575	5.60 C	5.70 C	20,658	39	34.72%	52	03
17 NOV 23	3580	5.60 C	5.80 C	321	180	34.54%	52	03
17 NOV 23	3590	5.80 C	5.90 C	363	267	34.23%	53	04
17 NOV 23	3600	6.00 C	6.10 C	1,877	383	33.97%	54	04
17 NOV 23	3610	6.10 C	6.30 C	201	145	33.65%	55	04 POS
17 NOV 23	3620	6.30 C	6.50 C	223	N/A	33.38%	56	04
17 NOV 23	3625	6.40 C	6.60 C	398	129	33.24%	56	04
17 NOV 23	3630	6.50 C	6.70 C	282	137	33,10%	57	04
17 NOV 23	3640	6.70 C	6.90 C	184	48	32.81%	58	04
17 NOV 23	3650	6.90 C	7.10 C	3,149	331	32.51%	59	04 P055
17 NOV 23	3660	7.10 C	7.30 C	206	138	32.21%	60	04
17 NOV 23	3670	7.40 C	7.50 C	301	89	31.94%	61	05
17 NOV 23	3675	7.50 C	7.70 C	301	223	31.83%	62	05
17 NOV 23	3680	7.60 C	7.80 C	317	71	31.67%	63	05
17 NOV 23	3690	7.80 C	8.00 C	370	289	31.35%	63	05
17 NOV 23	3700	8.10 C	8.30 C	1,811	822	31.10%	65	05
17 NOV 23	3710	8.40 C	8.60 C	193	114	30.84%	66	05
17 NOV 23	3720	8.60 C	8.90 C	305	99	30.54%	67	06
17 NOV 23	3725	8.80 C	9.00 C	725	155	30.40%	68	06
17 NOV 23	3730	8.90 C	9.20 C	370	35	30.26%	69	06
17 NOV 23	3735	9.10 C	9.30 C	154	91	30.12%	69	06
17 NOV 23	3740	9.20 C	9.50 C	224	92	29.98%	- 70	06
17 NOV 23	3745	9.40 C	9.70 C	255	149	29.87%	71	06

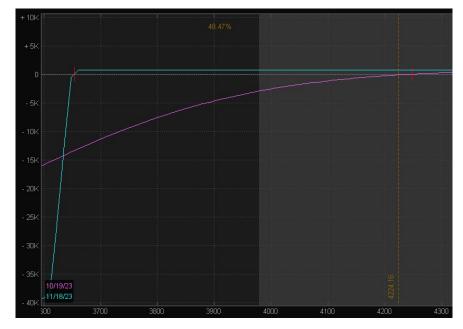


Expected move 205pts

Price-Short Strick = points to BEP 4224-3650 = 574

Points to BEP-Expected move= 574-205 = 369pts > expected move

#### Nov 17 SPX PCS at Open



<ul> <li>Price</li> </ul>	e Slice	es													+
		Stk Price		Offset	Delta	G	lamma	Theta	Ve	ga	P/L Open		P/L D	ay	BP Effe
	42	224.16 📑 油	\$	\$0	5.84		- 03	40.82	-119.	60	(\$130.69)		(\$130.6	9)	(\$17,605.8
Positio	ons an	nd Simulated Trade	es												
• ⊻	ALL	Show All	All 1 Series	Single Symbol	All groups	s 🖌 Model: Bj	jerksund-Stensland	Interest:	5.25% 📫 🍗	Date: 1	0/19/2023 🗂				
		Spread	Side	Qty Symbol		Exp	Strike Type		Price	Yield	Vol	Vo	l Adj	Delta	BP Effect
• 🗹	SPX														
⊻		IND		0	SPX		INDEX		.00	0.00%	21.69%	0.	00%	00	\$0.00
$\checkmark$		OPT	LONG	+10	SPX 17	NOV 23 (W	3610 PUT		6.20	1.59%	33.45%	0.00%	1	-38.19	\$138,562.31
V		OPT	SHORT	-10	SPX 17	NOV 23 (W	3650 PUT		6.95	1.59%	32.30%	0.00%	<b>*</b>	43.50	(\$156,168 (\$17,605.86)

Close: 17 Nov SPX PCS, 11 Days in Trade

SPX @4182 (+15.60, +37%)

Credit \$726.40 Cost to close \$272.62 Profit \$453.78



Short put @  $2\Delta$ 

Strikes: ALL					PUTS	3		
Exp	Strike	Bid X	Ask X	Open Int	Volume	Impl Vol	Theta 🖌	Delta 🦼
								18.94% (±136.966)
17 NOV 23	3600	1.55 C	1 65 C	2,190	11	32.93%	30	01
17 NOV 23	3610	1.65 C	1.70 C	237	10	32.63%	31	02
17 NOV 23	3620	1.70 C	1.75 C	354	4	32.24%	32	02
17 NOV 23	3625	1.70 C	1.80 C	500	N/A	32.05%	32	02
17 NOV 23	3630	1.75 C	1.80 C	460	N/A	31.85%	32	02
17 NOV 23	3640	1.80 C	1.85 C	188	4	31.46%	33	02
17 NOV 23	3645	1.85 C	1.90 C	61	N/A	31.32%	34	02
17 NOV 23	3650	1.85 C	1.95 C	3,524	14	31.12%	34	02
17 NOV 23	3655	1.90 C	1.95 C	104	1	30.92%	34	02
17 NOV 23	3660	1.95 C	2.00 C	321	N/A	30.77%	35	02
17 NOV 23	3665	1.95 C	2.05 C	121	11	30.57%	35	02

#### Start: SPX 24 NOV PCS on 10-26-23

#### 29 DTE, SPX down 51.27



Strikes: ALL					PUTS	S			
Exp	Strike	Bid X	Ask X	Open.Int	Volume 🖌	Impl Vol	Theta 🖌	Delta 🧧	
								21.65% (±20	2.274)
24 IVUV 23	2000	1.30 6	1.00 G	442	19//4	43.0170	∠v	V I	beer action actions
24 NOV 23	3100	1.90 C	2.00 C	329	91	45.92%	24	01	
24 NOV 23	3200	2.35 C	2.50 C	447	26	42.76%	28	01	
24 NOV 23	3250	2.65 C	2.75 C	247	N/A	41.16%	30	02	کی ک
24 NOV 23	3300	2.95 C	3.10 C	363	40	39.58%	32	02	
24 NOV 23	3350	3.30 C	3.50 C	238	22	38.02%	35	02	
24 NOV 23	3400	3.70 C	3.90 C	228	6	36.41%	38	02	
24 NOV 23	3450	4.30 C	4.40 C	1,330	N/A	34.92%	41	03	
24 NOV 23	3500	4.90 C	5.10 C	3,738	18	33.43%	45	03 PO	5 <b>-</b> (
24 NOV 23	3550	5.70 C	5.90 C	20,865	13	31.97%	49	04 🕫	<u>.</u>
24 NOV 23	3600	6.70 C	6.90 C	20,961	3	30.55%	54	04	
24 NOV 23	3625	7.40 C	7.60 C	0	59	29.94%	58	05	
24 NOV 23	3650	8.10 C	8.30 C	545	16	29.27%	- 61	05	
24 NOV 23	3675	8.90 C	9.20 C	13	N/A	28.65%	65	06	
24 NOV 23	3690	9.50 C	9.70 C	0	N/A	28.28%	67	06	
24 NOV 23	3700	9.90 C	10.10 C	1,415	155	28.03%	68	07	
24 NOV 23	3710	10.30 C	10.60 C	0	1	27.81%	70	07	
24 NOV 23	3720	10.80 C	11.00 C	11	4	27.57%	72	07	
24 NOV 23	3725	11.00 C	11.30 C	49	359	27.47%	73	08	
24 NOV 23	3730	11.20 C	11.50 C	2	39	27.32%	74	08	
24 NOV 23	3740	11.80 C	12.00 C	8	42	27.12%	- 76	08	
24 NOV 23	3750	12.30 C	12.50 C	462	327	26.87%	77	08	

SPX @4135 (-51.27) credit \$776.4 Short put @ 4Δ

Expected move 202pts

Price - Short Strick = points to BEP 4135-3550 = 585

Points to BEP - Expected move = 585-202 = 383pts > expected move

#### Nov 24 SPX PCS at Open



✓ Pri-	e Slic	es												+	
		Stk Price		Offset	Delta		Gamma	Theta	V	ega	P/L Open	P/	L Day	BP	Effect
	4	134.36 📄 🍗	\$	\$0 🗄 👘	5.86		04	43.84	-124	.24	\$0.07		\$0.07	(\$20,20	01.75
Posit	ions a	nd Simulated Tra	ades											▼	1
¥ [	ALL	Show All	All 2 Series	Single Symbol	_ All gr	oups 🚽 Model: I	Bjerksund-Stensland	, Interest:	5.25% 🚢 🍗	Date:	10/26/2023	2			
		Spread	Side	Qty Symbol		Exp	Strike Type		Price	Yi	eld Vol	Vol Adj	Delt	a BP Effe	ect
•	SP)														*
		IND		0	SPX		INDEX		.00	0.00	22.11%	0.00%	.0	0	
		OPT	LONG	+10	SPX	17 NOV 23 (W	3610 PUT		6.20	2.00	32.44%	0.00% 📑 🎦	-38.5	6	
		OPT	SHORT	-10	SPX	17 NOV 23 (W	3650 PUT		6.95	2.00	% 31.14%	0.00% 📑 🍋	45.3	8	
$\mathbf{v}$		OPT	LONG	+10	SPX	24 NOV 23 (W	3500 PUT		5.00	1.68	33.24%	0.00% 📑 🎦	-31.7	1 \$119,359.9	97
V		OPT	SHORT	-10	SPX	24 NOV 23 (W	3550 PUT		5.80	1.68	31.82%	0.00% 📑 🎦	38.0	2 (\$139,561.	
														(\$20 201 7	5)

#### Close: 24 Nov SPX PCS, 11 Days in Trade

Credit \$776.4 Cost to close \$121.80 Profit \$654.60



Total profit \$654.60 + 453.78 = \$1,108.38

SPX	- 0	S&P 500 IN	IDEX 4349	.19 -9.15	B: 4348.15 A: 4349.98	₩ ±7.50	4	2									
✓ Underlyi	ing																d
10	La	it X	Net Chng		Bid X		Ask X	Size	Volume		Open		High		Low		
<i>`</i>	4349.19		-9.15		4348.15		4349.98	N/A	N/A		4364.27		4372.21	4	347.53		
✓ Option (	Chain Filter:	Off Sprea	ad: Single 🛓 I	Layout: <b>Ope</b>	n Interest,	Volume, Im	pl Vol, Theta	1, <sub>2</sub>								▼	C.
			CALI	LS				Strikes: ALL					PUT	S			
	Open.Int	Volume ,	Impl Vol 🖌	Theta 🖌	Delta 🖌	Bid X	Ask X	Exp	Strike	Bid X	Ask X	Open.Int	Volume 🖌	Impl Vol	Theta 🖌	Delta 🖌	
✓ 24 NC	OV 23 (18)	100 (Weekly	(s)													14.73% (±1	13.934)
		N/A		47	1.00		1057 10 C	24 NOV 23	3300	.40 C	.50 C	454	1	46.74%	11	.00	
		N/A		- 48	1.00	1001.30 C		24 NOV 23	3350	.50 C	.55 C	498	N/A	45.16%	12	.00	
	10	N/A		49	1.00	951.50 C	957 50 C	24 NOV 23	3400	.55 C	.60 C	4,173		43.28%	13	.00	
		N/A		49	1.00	901.70 C	907.70 C	24 NOV 23	3450	.60 C	.70 C	1,358	N/A	41.54%	15	.00	
	0	N/A		50	1.00	851.90 C	857 90 C	24 NOV 23	3500	.70 C	.75 C	3,746	60	39.73%	16	01	إكلك
		N/A		51	1.00		808.90 C	24 NOV 23	3550	.75 C	.85 C	27,923	10	37.86%	17		
		N/A		51	1.00	778.00 C	784.00 C	24 NOV 23	3575	.80 C	.90 C	52	N/A	36.97%	18	01	إلكاتك
		N/A		52	1.00	752.40 C	758.30 C	24 NOV 23	3600	.85 C	.95 C	26,174	51	36.06%	19	01	
	50	N/A		52	1.00	727.60 C	733.60 C	24 NOV 23	3625	.90 C	1.00 C	199	10	35.14%	19	01	

### THE END

Written and Directed by Bruce W. Ennis, PhD Produced by AAII San Diego Assistant Producer James Hoffman, USMC