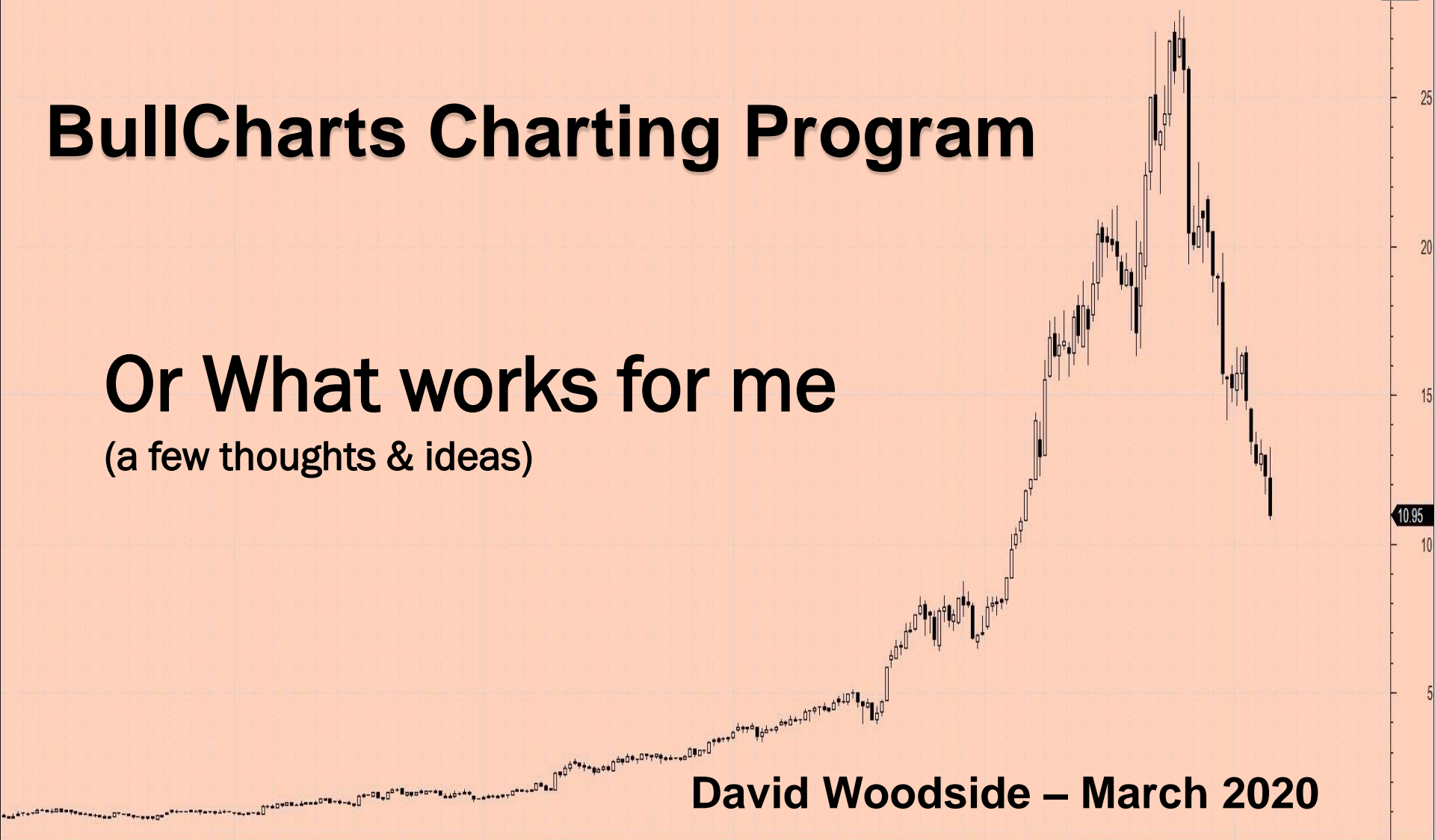


# BullCharts Charting Program

## Or What works for me (a few thoughts & ideas)

David Woodside – March 2020



Volume 4,491,218.0

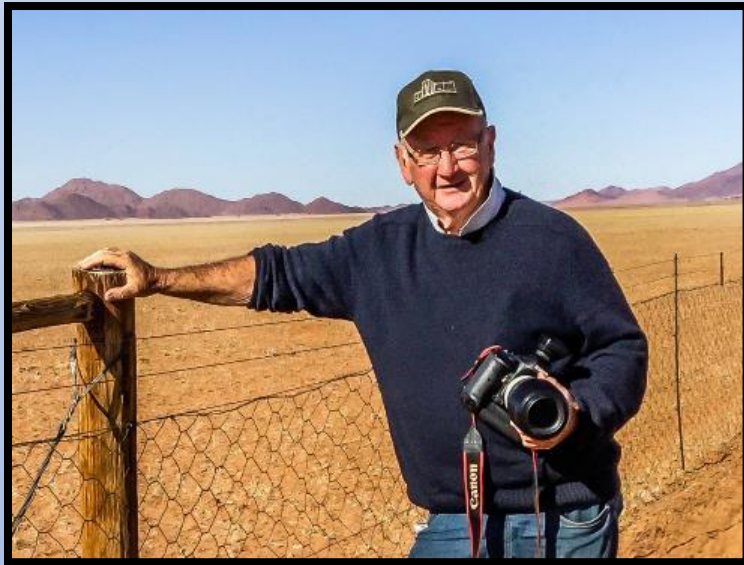
26/02/2020



Fe	Ma	Ap	Ma	Ju	Jul	Au	Se	Oc	No	De	Ja	Fe	Ma	Ap	Ma	Ju	Jul	Au	Se	Oc	No	De	Ja	Fe	Ma	Ap	Ma	Ju	Jul	Au	Se	Oc	No	De	Ja	Fe	Ma	Ap	Ma	Ju	Jul	Au	Se	Oc	No	De	Ja	Fe	Ma	Ap	Ma	Ju	Jul	Au	Se	Oc	No	De							
2015											2016											2017											2018											2019											2020										

4.491M

# My Investing Journey



Retired farmer - investor

Keen amateur photographer

Like graphical display of data

Like colour for visual effects

My investing - trend following

# Many ways to find a Weekly Trend

1. Visual –price on a basic chart
2. Moving Averages or crossovers with fill
3. Line chart – smooths price volatility
4. Moving Average Bands, Fibonacci Bands, Trading Bands
5. Envelopes, Linear Regression Bands
6. Keltner Channels
7. Bollinger Bands – using standard deviation
8. Ichimoku Cloud Chart
9. Donchian Channels



Discussion



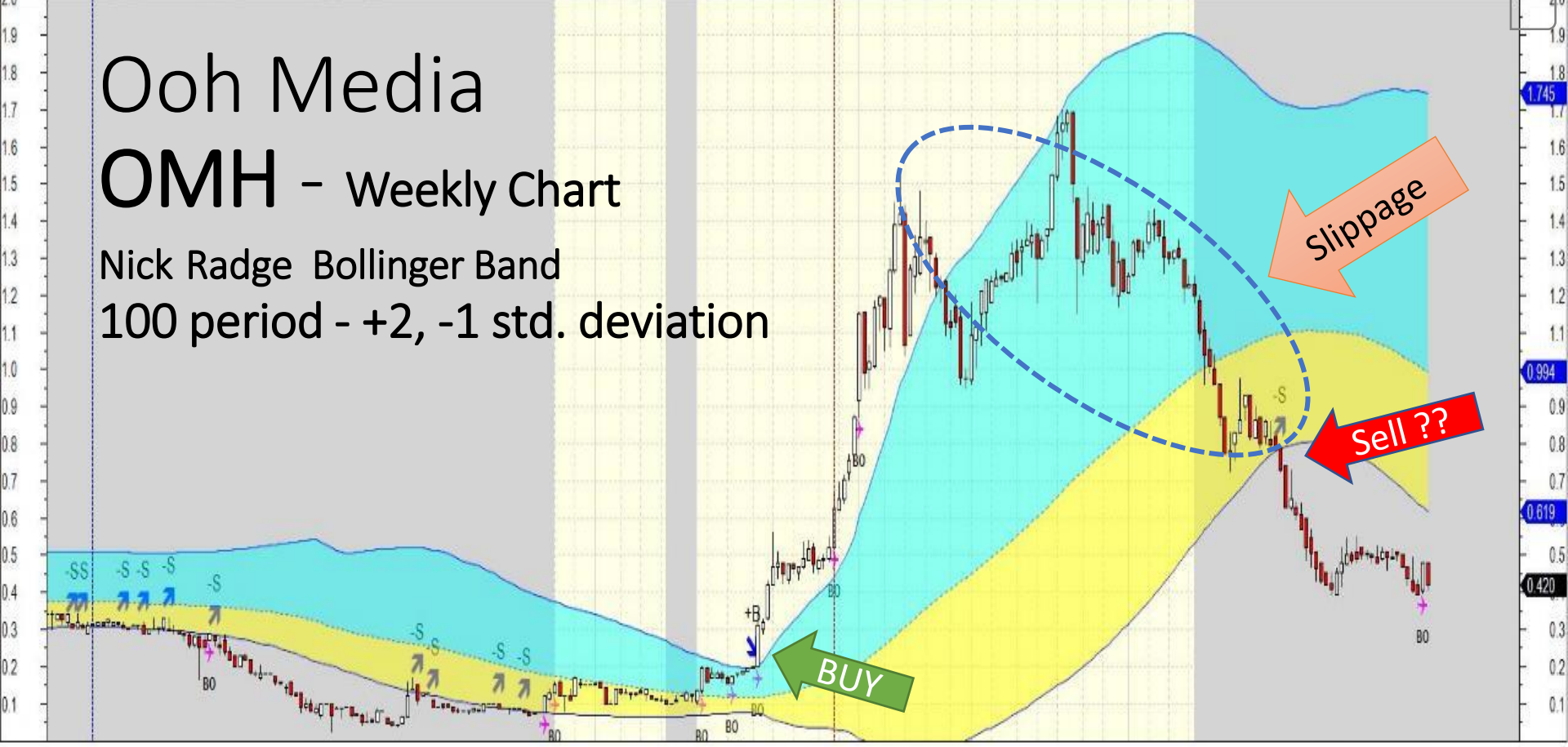
# Ichimoku Charts & Bollinger Bands

1. Ichimoku Cloud Charts - one glance chart
2. Bollinger Bands = 20 period sma +/- Std. Deviation of price +2, -2
3. **Nick Radge** - modified Bollinger Bands default setting to 100 - standard deviation (+2, -1)
4. **NR BBands** - weekly charts to show trend momentum
5. **Buy** – when price closes above the upper Bollinger Band
6. **Sell** - when price closes below the lower Bollinger Band
7. Some slippage – often late entry and late exits



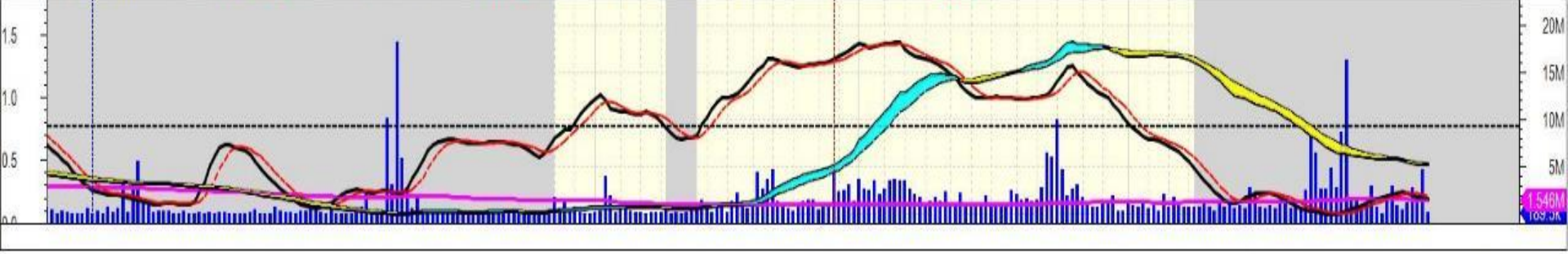
# Ooh Media OMH - Weekly Chart

Nick Radge Bollinger Band  
100 period - +2, -1 std. deviation



-GMMA +GMMA +GMMA -GMMA

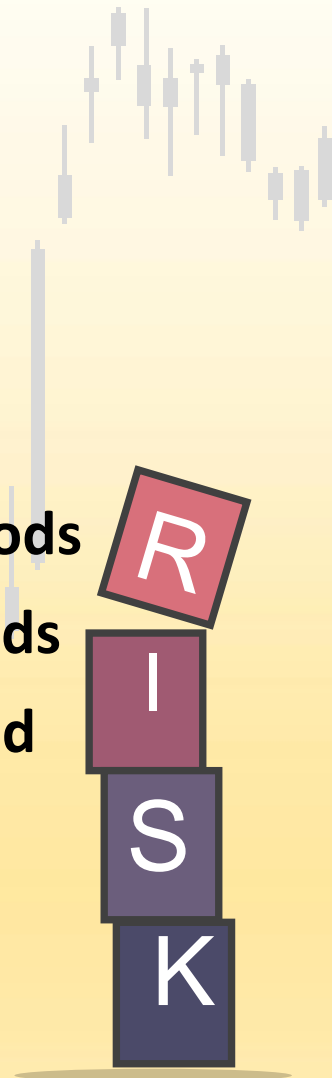
Volume (1) 189,454,000 MA-V(S, 200) 1,545,889,760 sto(30, 10, 3, 5, S) %K=-76.674 %D=-74.227 MA-C8\_30W(C, Exp, Wei, 15, 30) S=0.469 L=0.472 MA-V(S, 200) 1,545,889,760



Dec Ja Fe Mar Ap M Jun Jul Au Se Oc No De Ja Feb M Ap Ma Ju Jul Au Se Oct No De Jan Fe M Apr M Ju Jul Au Se Oct No De Ja Fe M Apr M Ju Jul Au Se Oc No De Ja Fe M Ap M Ju

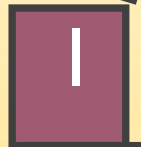
# Donchian Channels ?

1. Developed by Richard Donchian - 1930's - help identify trends
2. Became known as "*The Father of Trend Following*"
3. **Donchian Channels** - 3 lines generated by moving average calculations (default 20 periods)
4. **Creates upper and lower bands around a mid-range**
5. **Upper band** - highest price of a security - last 20 periods
6. **Lower band** - lowest price of a security – last 20 periods
7. **Mid-range (middle line)** is 1/2 way between upper and lower bands



# What are Donchian Channels?

1. The upper and lower bands - the **Donchian Channel**
2. Bands show areas of resistance or support
3. Turtle Trading (1980's) - taught by Richard Dennis – used trend following strategy based on Donchian's work
4. Some suggest that with automated trading – need to look at longer time frames
5. I **modified** the Donchian Channel - moved indicator default from **20 to 60**



# Modifying the Donchian Channel Indicator

1. Added coloured fill to upper/lower bands
2. Added coloured Chart Ribbon - +/- Guppy MMA (5ema to 50ema) – backgrounded all panes
3. Lightened upper band fill – easier viewing
4. Added 8 ema + 50 wma (better exit signal)
5. Lower chart pane contains volume, slow stochastic and 8\_30 ema crossover (with fill)

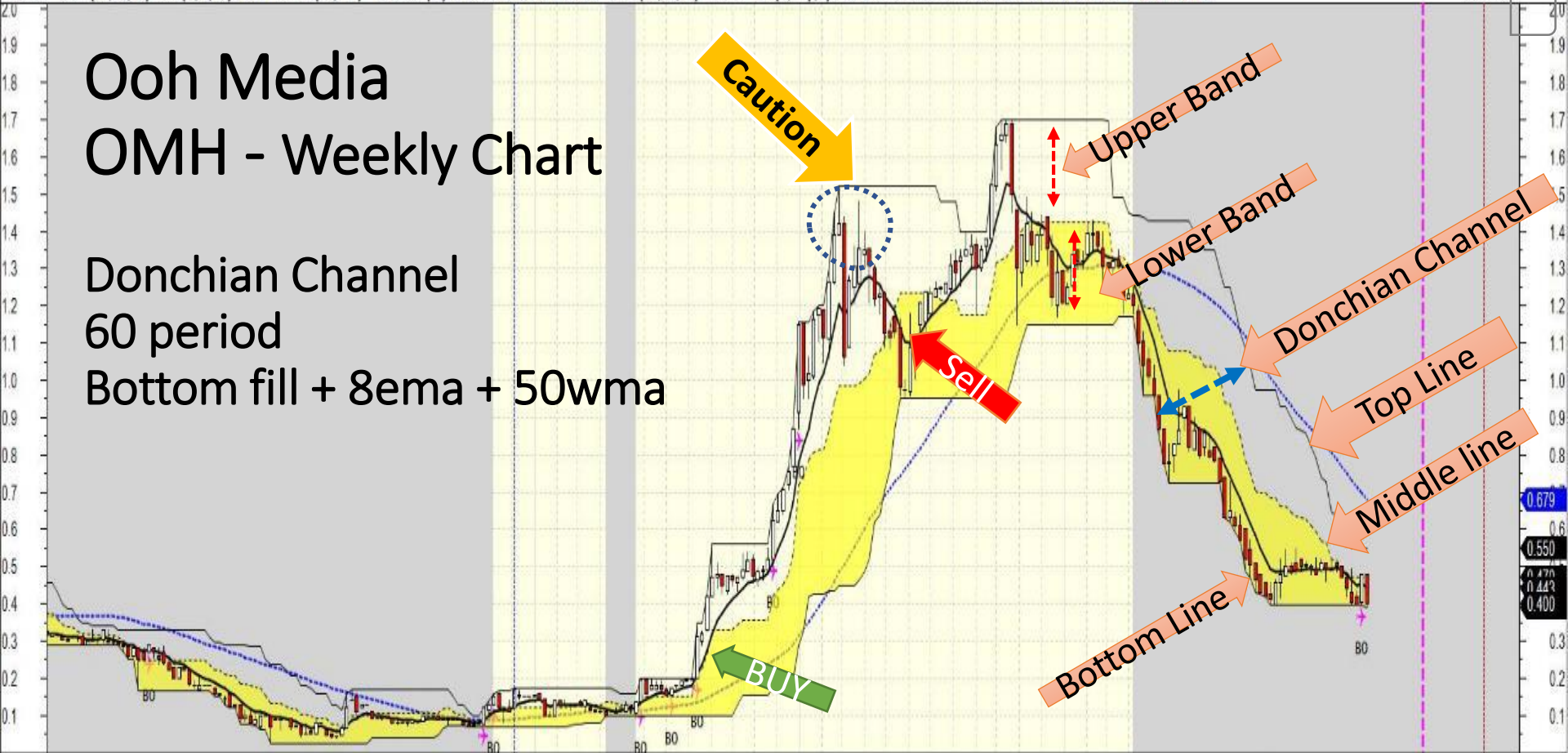




DMW(21, 55, 45) MA(C, S, 50) 0.679 PVBm(10, 100) DCWF02(20) T=0.550 M=0.470 B=0.390 DMW(21, 55, 45) EDVL MA(C, Exp, 8) 0.443 OMH w CI=0.400 O=0.480 H=0.480 L=0.390 -0.080 -16.67%

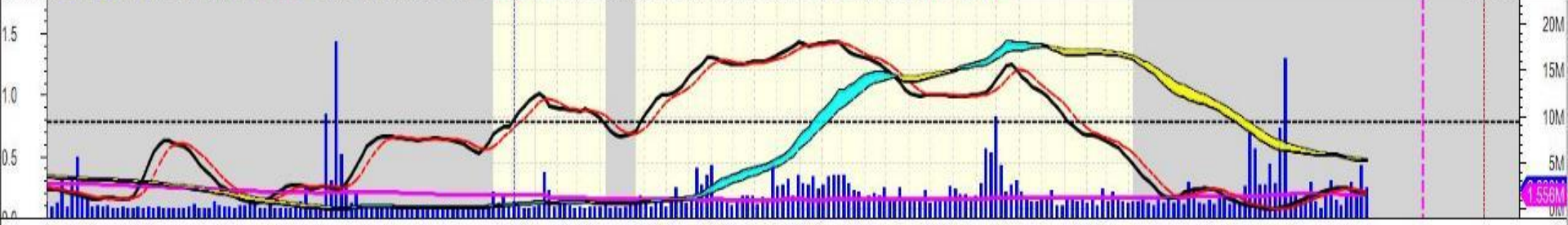
# Ooh Media OMH - Weekly Chart

Donchian Channel  
60 period  
Bottom fill + 8ema + 50wma



-GMMA +GMMA +GMMA -GMMA

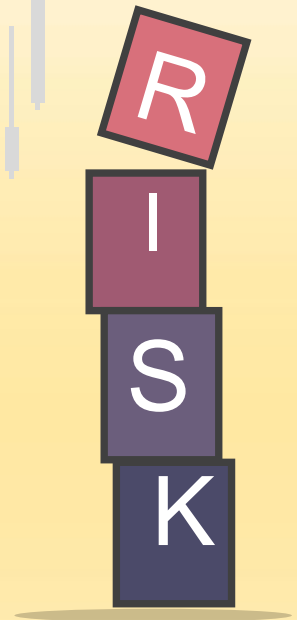
Volume (1) 2,289,053,000 MA-V(S, 200) 1,556,387,755 sto(30, 10, 3, 5, S) %K=-77.222 %D=-74.337 MA-C8\_30W(C, Exp, Wei, 15, 30) S=0.466 L=0.470 MA-V(S, 200) 1,556,387,755



Mar Ap Ma Ju Jul Au Se Oc No De Ja Fe Ma Ap Ma Ju Jul Au Se Oc No De Ja Fe Ma Ap Ma Ju Jul Au Se Oc No De Ja Fe Ma Ap Ma Ju Jul Au Se  
2015 2016 2017 2018 2019 2020

# Donchian Channels – Pros & Cons

1. Visually appealing - helps identify the trend
2. Struggles with non trending markets
3. Best on weekly charts – trending up
4. **Buy** when price closes above lower band (in upper band)
5. **Caution** when price falls below top line in upper band
6. **Sell** when price moves into lower band (yellow) – or price crosses 50 wma

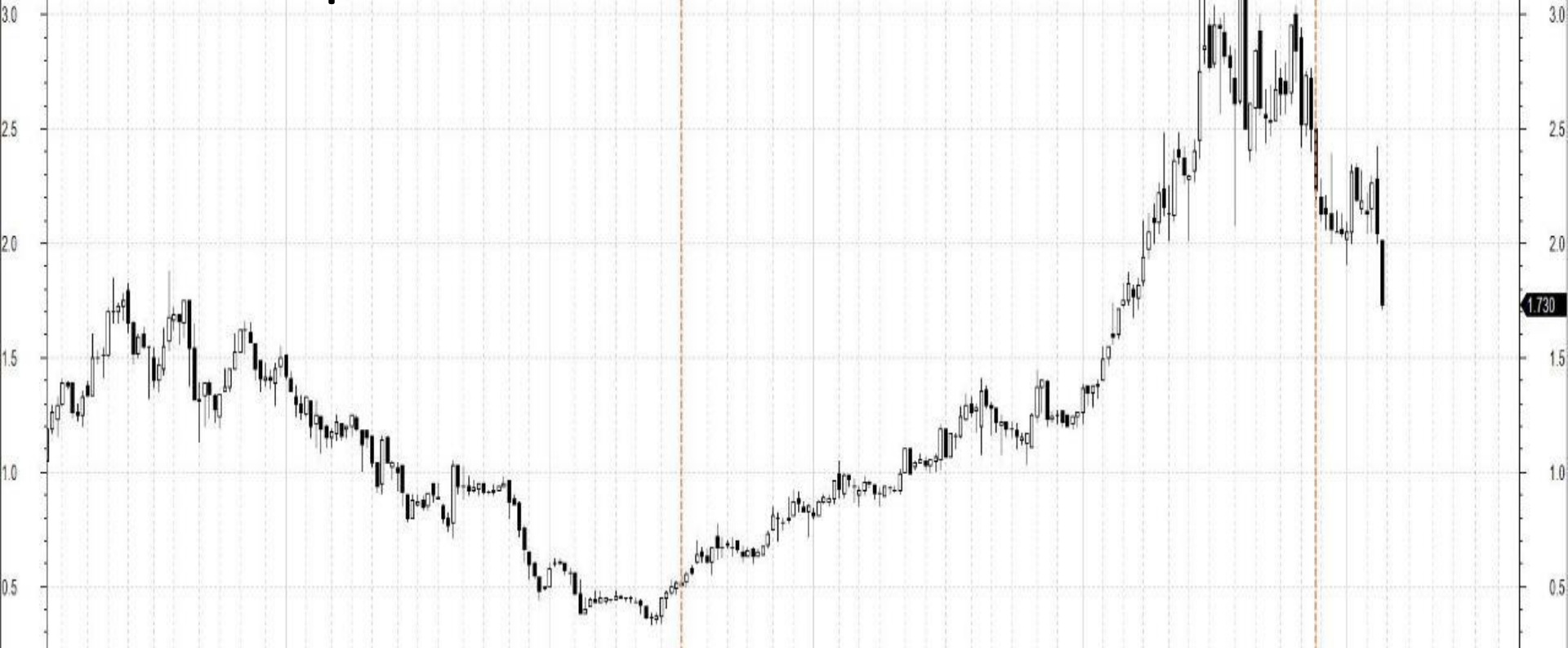


# Picking Trending Stock in Practice

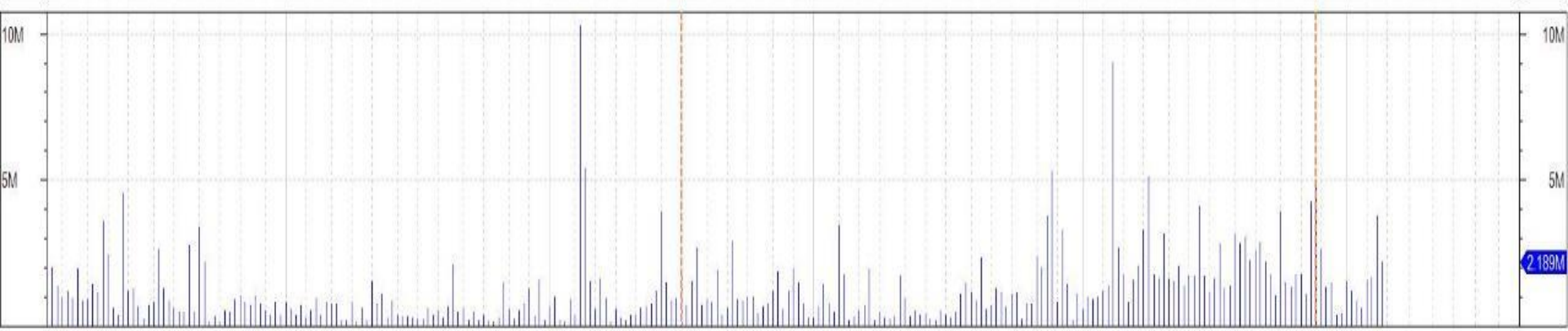
1. View a stock - **RHP** using **various settings on weekly charts**
2. Start with a simple candlestick chart
3. Add a few indicator
4. Line Chart
5. Bollinger Band – 100 period
6. Donchian Channel – 20 period
7. Donchian Channel – 60 period



# RHP - Simple Candlestick Chart + Volume



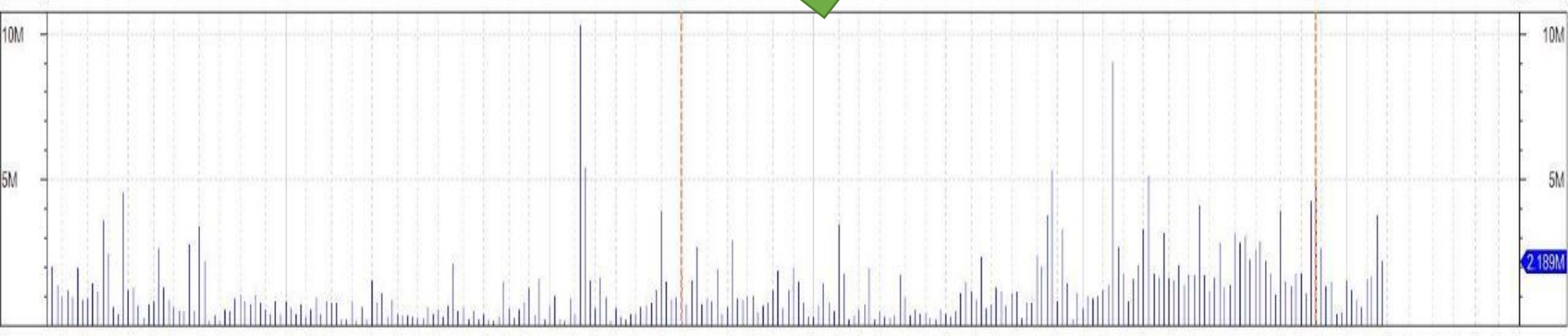
1.730



2.189M

eb Mar Ap M Jun Jul Au Se Oc No De Ja Feb M Ap Ma Ju Jul Au Se Oct No De Jan Fe M Ap Ma Ju Jul Au Se Oct No De Jan Fe M Apr M Ju Jul Au Se Oct No De Ja Fe M Apr M Ju Jul Au  
 2015 2016 2017 2018 2019 2020

# RHP + 10/30 ema Crossover

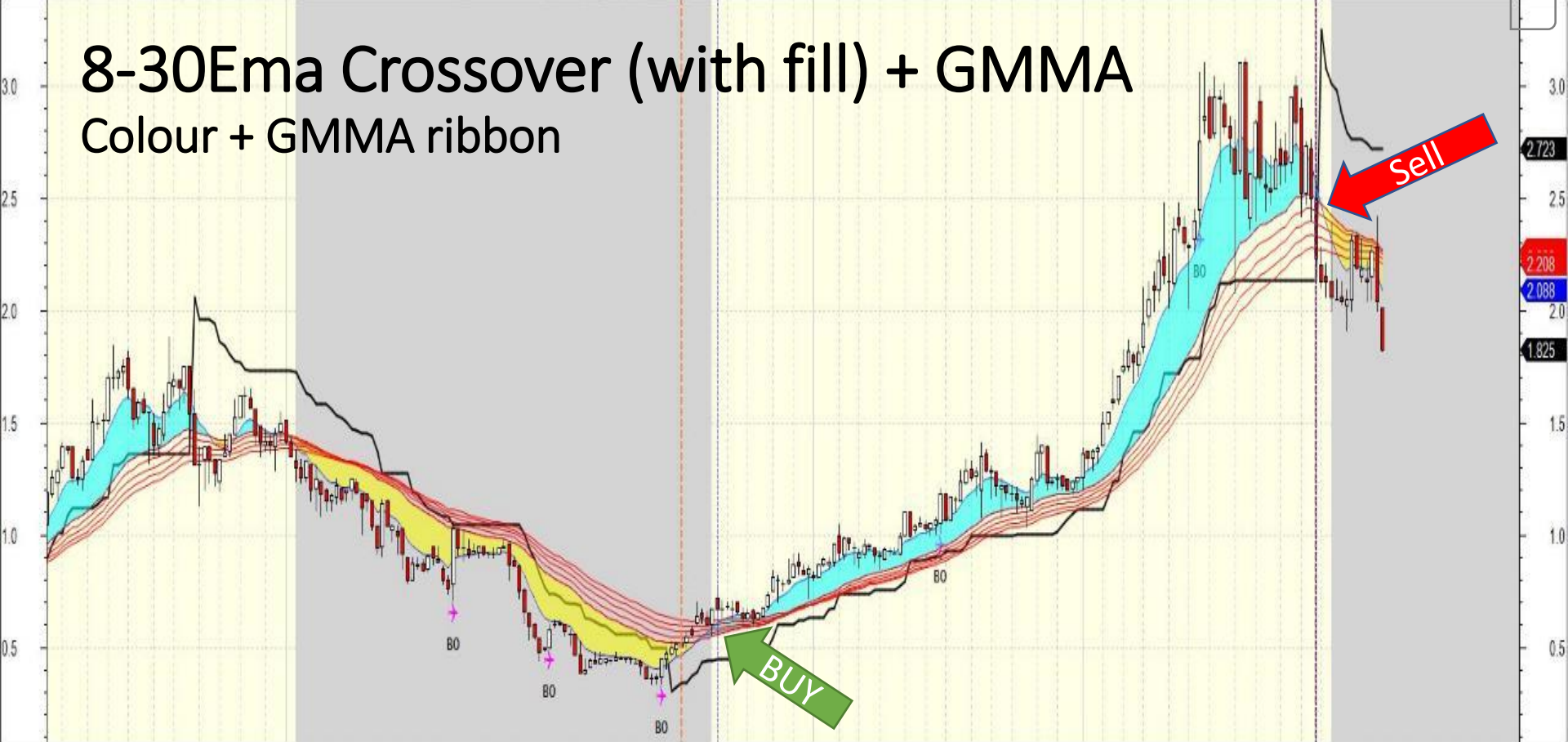


2.262  
2.098  
1.730

2.189M

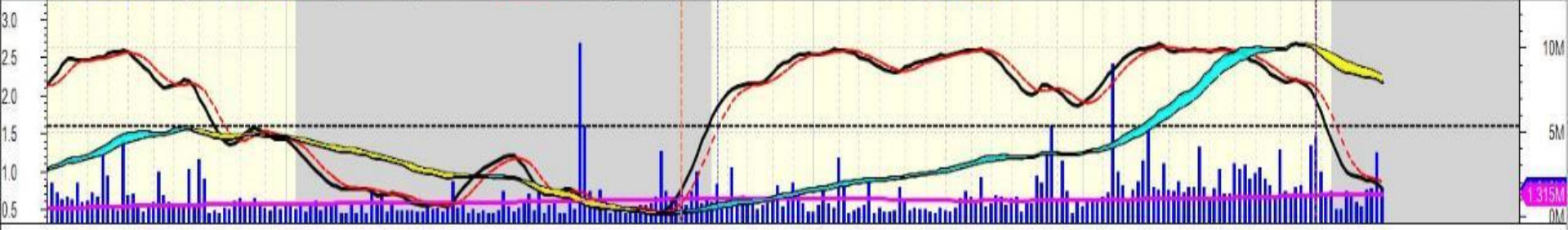
# 8-30Ema Crossover (with fill) + GMMA

## Colour + GMMA ribbon

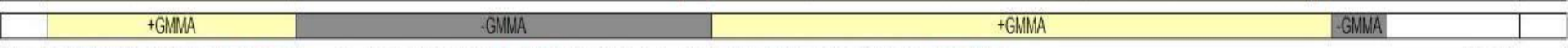


+GMMA -GMMA +GMMA -GMMA

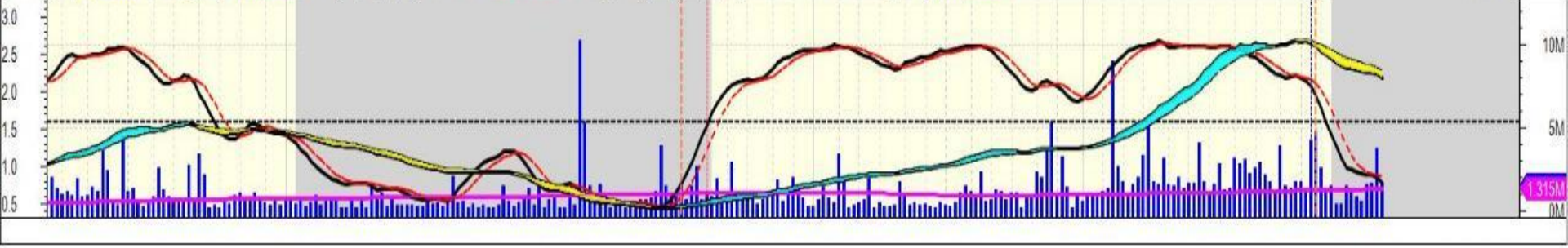
Volume (1) 1,609,862,000 MA-V (S, 200) 1,315,068,235 sto (30, 10, 3, 5, S) %K=-59.175 %D=-52.996 MA-C8 30W (C, Exp, Wei, 15, 30) S=2.182 L=2.274 MA-V (S, 200) 1,315,068,235 27/02/2020



# Line Chart – 1/30 ema + GMMA



Volume (1) 1,609,862,000 MA-V(S, 200) 1,315,068,235 sto (30, 10, 3, 5, S) %K=-59.175 %D=-52.996 MA-C8\_30W(C, Exp, Wei, 15, 30) S=2.182 L=2.274 MA-V(S, 200) 1,315,068,235 27/02/2020

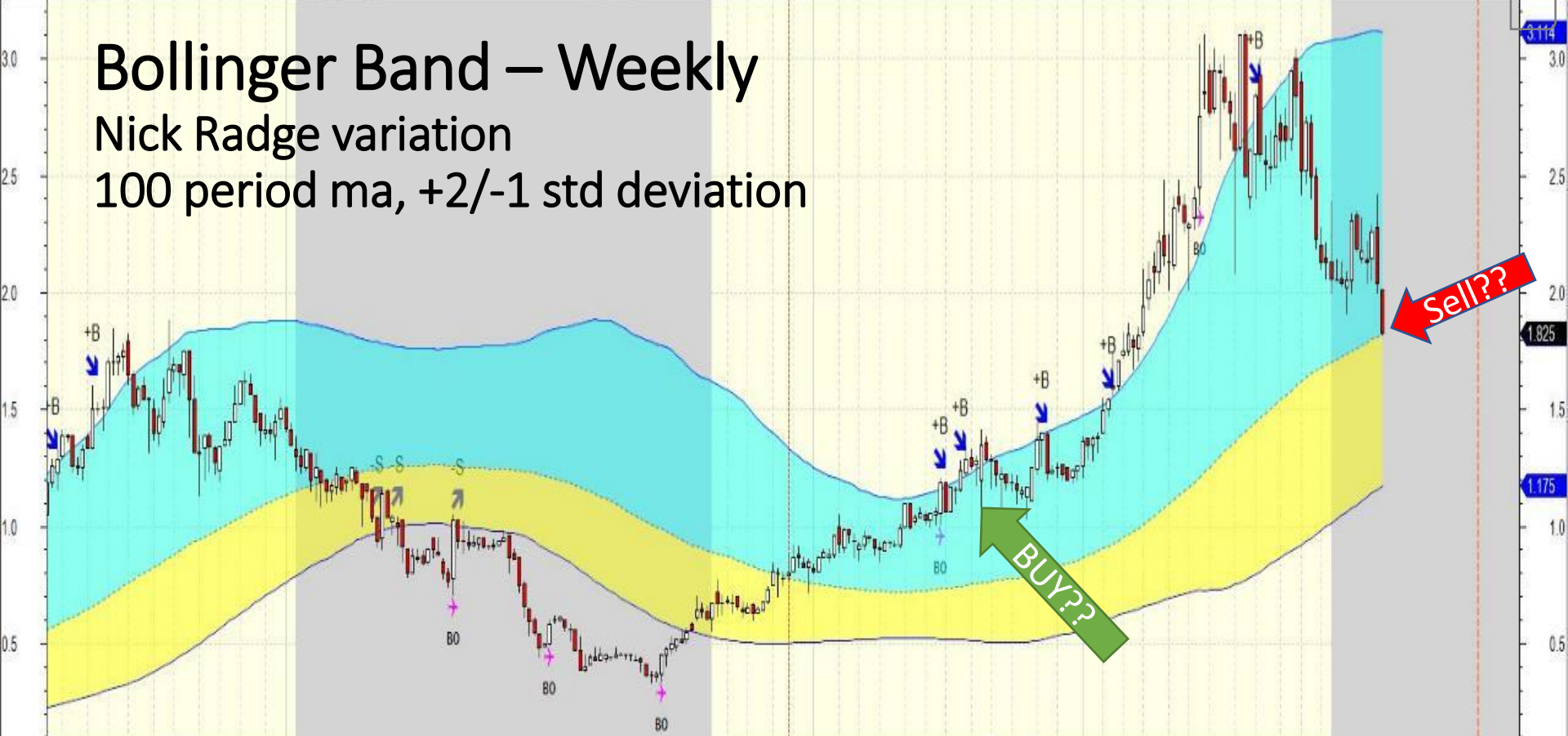


Feb Mar Apr M Jun Jul Au | Se Oc No | De Ja Feb M | Ap Ma Ju Jul Au | Se Oc No | De Jan Fe M | Apr M | Ju Jul Au | Se Oc No | De Ja Fe M | Apr M | Ju Jul Au | Se Oc No | De Ja Fe Ma Ap M | Ju Jul Au | 2015 2016 2017 2018 2019 2020

# Bollinger Band – Weekly

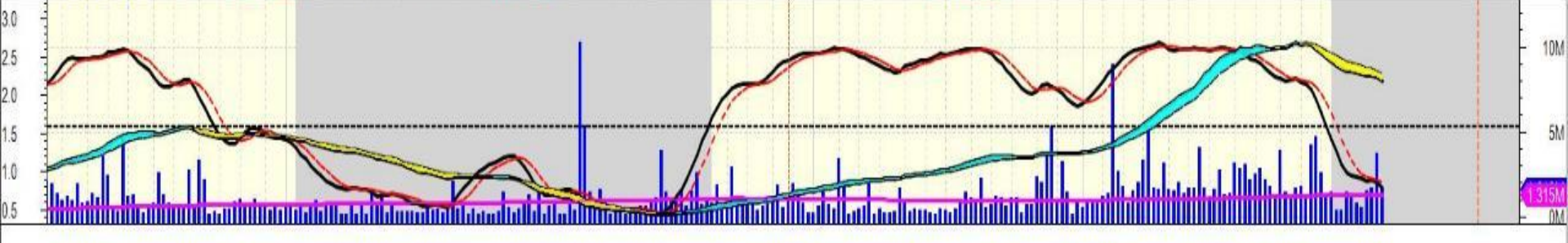
## Nick Radge variation

### 100 period ma, +2/-1 std deviation



+GMMA -GMMA +GMMA -GMMA

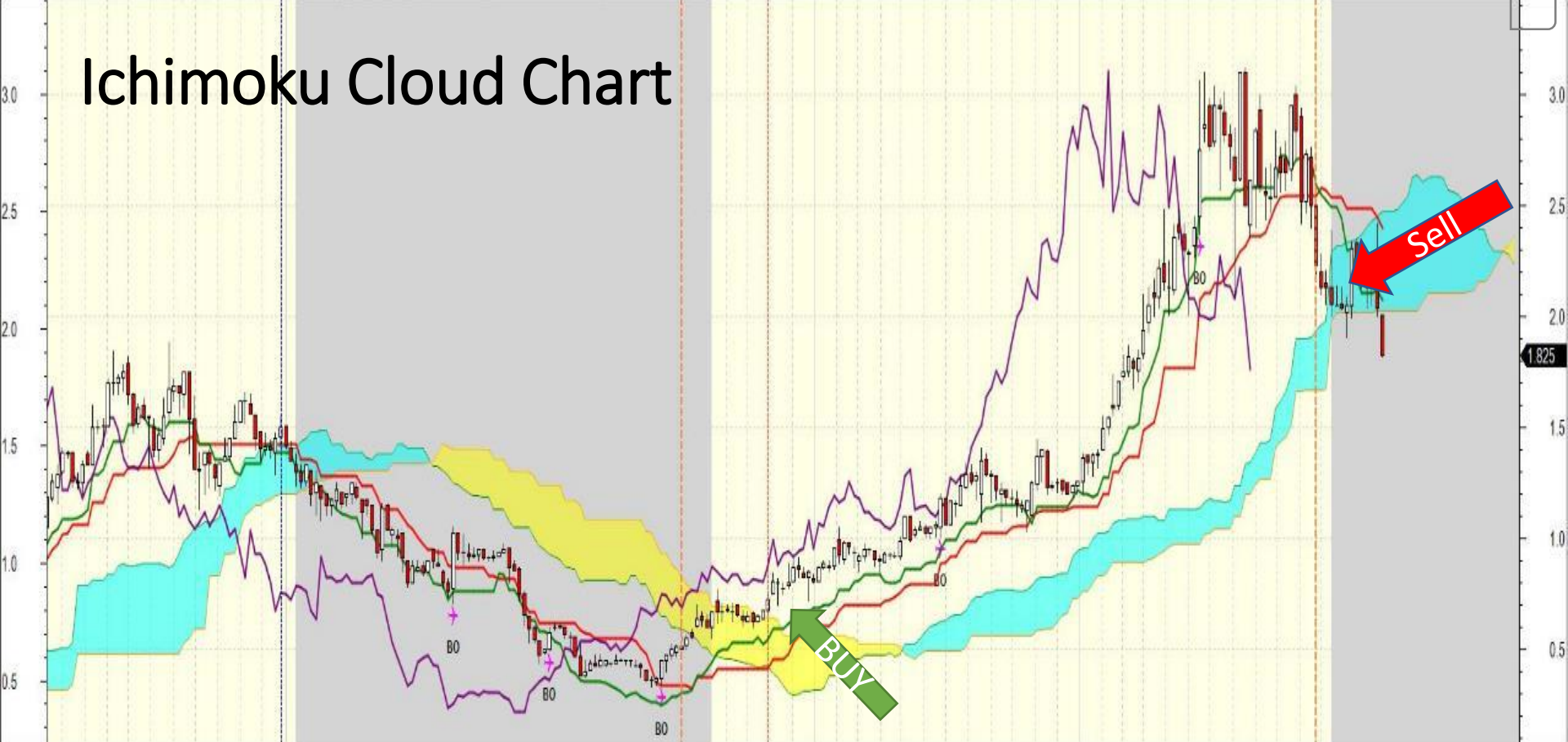
Volume (1) 1,609,862,000 MA-V(S, 200) 1,315,068,235 sto(30, 10, 3, 5, S) %K=-59.175 %D=-52.996 MA-C8\_30W(C, Exp, Wei, 15, 30) S=2.182 L=2.274 MA-V(S, 200) 1,315,068,235



Feb Mar Apr M Jun Jul Au Se Oc No De Ja Feb M Ap Ma Ju Jul Au Se Oct No De Jan Fe M Ap Ma Ju Jul Au Se Oct No De Ja Fe M Apr M Ju Jul Au Se Oc No De Ja Fe Ma Ap M Ju Jul Au 2015 2016 2017 2018 2019 2020



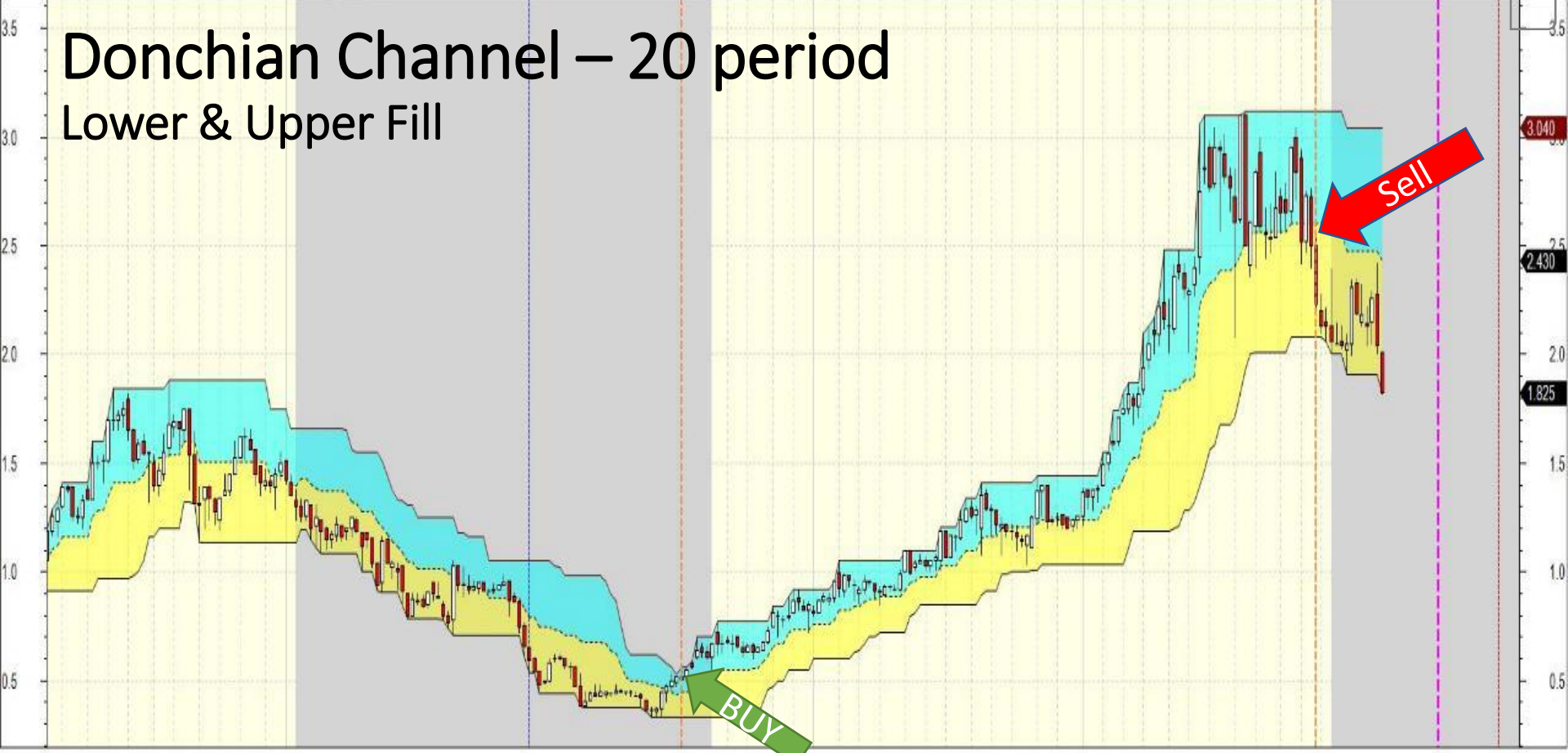
# Ichimoku Cloud Chart



+GMMMA -GMMMA +GMMMA -GMMMA

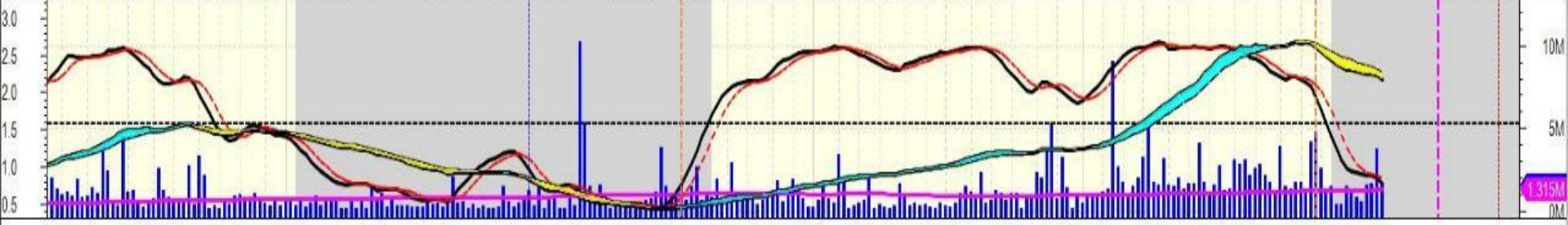


# Donchian Channel – 20 period Lower & Upper Fill



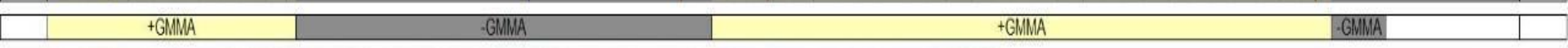
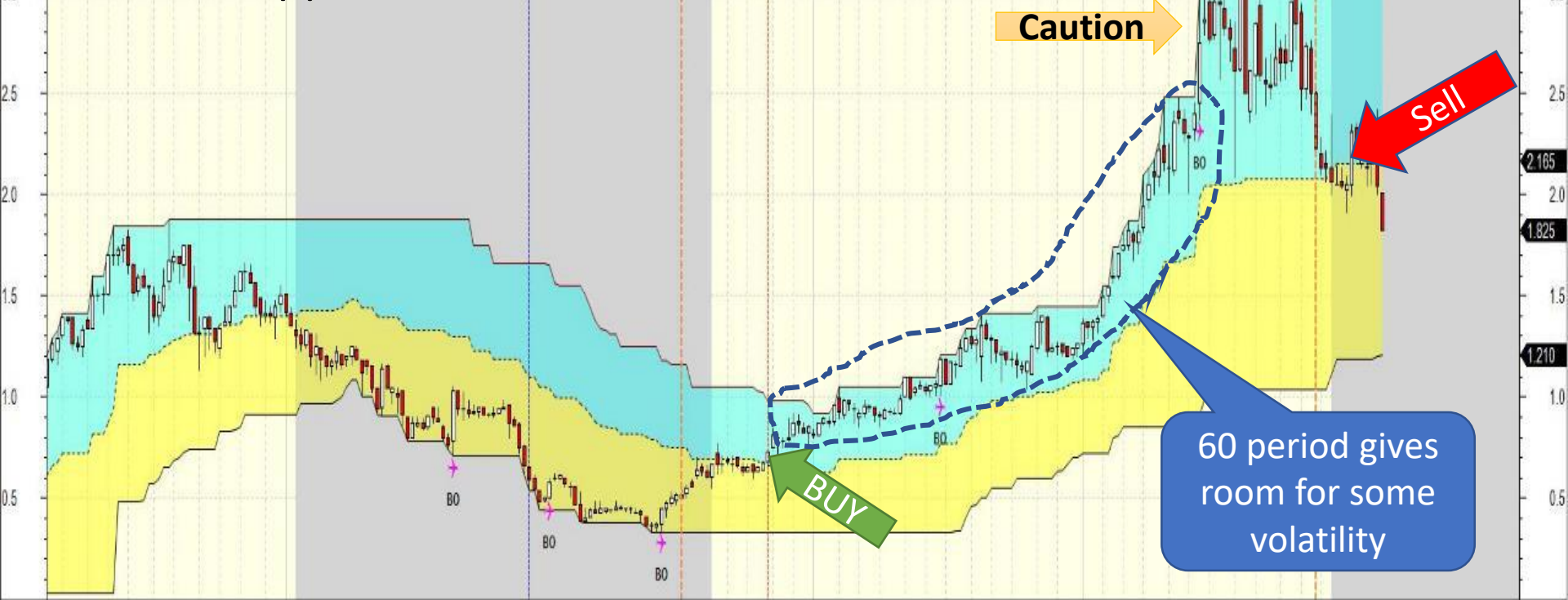
+GMMA -GMMA +GMMA -GMMA

Volume (1) 1,809,862,000 MA-V(S, 200) 1,315,068,235 sto (30, 10, 3, 5, S) %K=-59.175 %D=-52.996 MA-C8\_30W(C, Exp, Wei, 15, 30) S=2.182 L=2.274 MA-V(S, 200) 1,315,068,235 27/02/2020

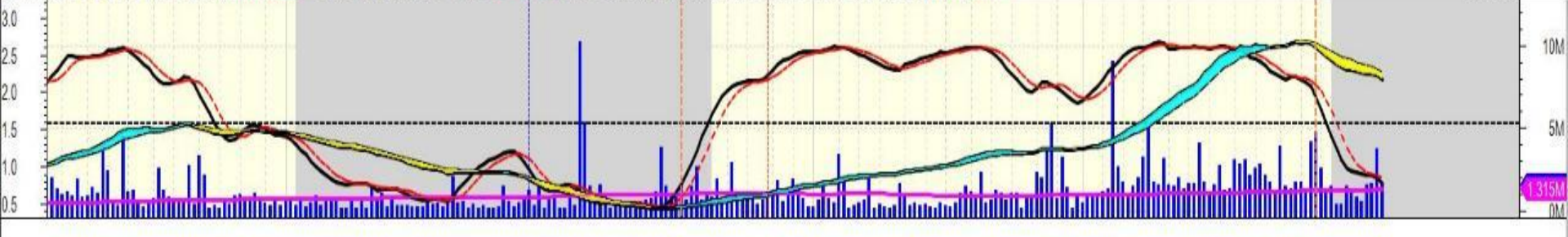


Feb Mar Apr M Jun Jul Au Se Oc No De Ja Feb M Ap Ma Ju Jul Au Se Oct No De Jan Fe M Apr M Ju Jul Au Se Oct No De Ja Fe M Apr M Ju Jul Au Se Oc No De Ja Fe Ma Ap M Ju Jul Au 2015 2016 2017 2018 2019 2020

# Donchian Channel – 60 period Lower & Upper Fill



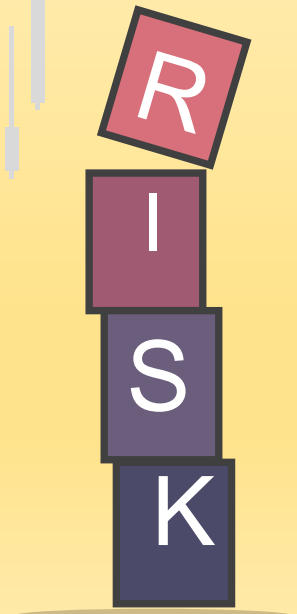
Volume (1) 1,809,862,000 MA-V(S, 200) 1,315,068,235 sto (30, 10, 3, 5, S) %K=-59.175 %D=-52.996 MA-C8\_30W (C, Exp, Wei, 15, 30) S=2.182 L=2.274 MA-V(S, 200) 1,315,068,235 27/02/2020





# A few Charts Using Donchian Channels

1. Weekly charts using the Donchian Channel Indicator
2. 6 stocks
  - **2 X Non Trending Stocks**
  - **2 X Possible Buys**
  - **2 X Possible Sells**

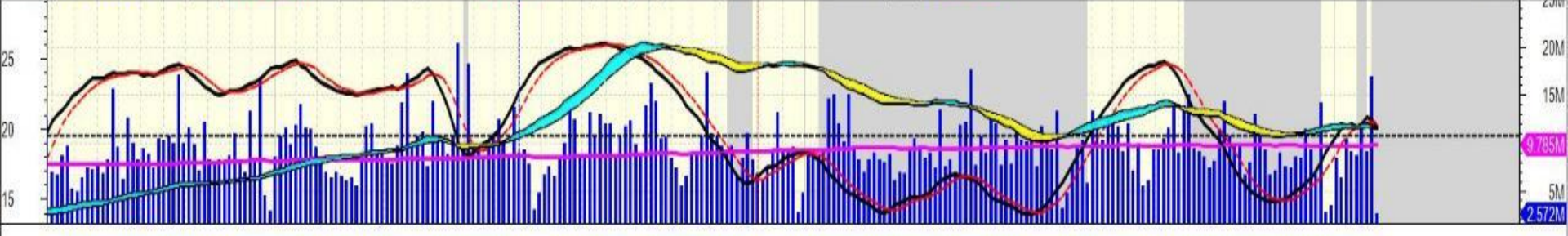




23.21  
21.62  
20.80  
19.87  
18.85  
18.39

**AGL - NON TRENDING**

+GMMA +GMMA +GMMA -GMMA +GMMA -GMMA



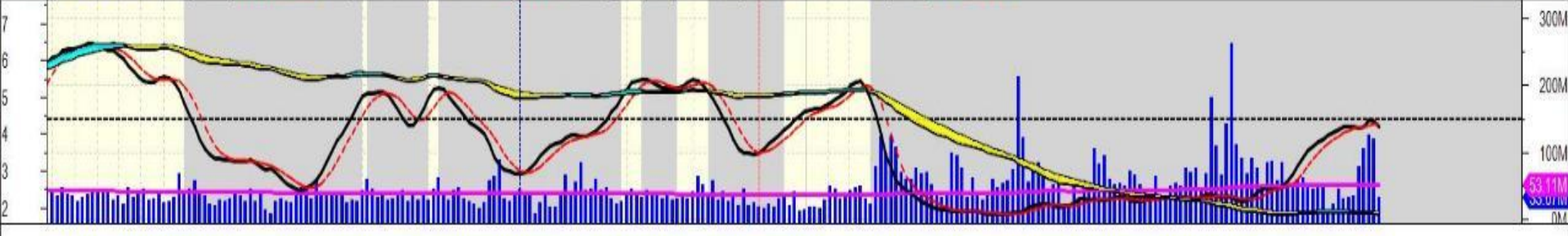
20M  
15M  
9.785M  
5M  
2.572M

Ma Ap M Ju Jul Au Se Oc No De Ja Fe Ma Ap Ma Ju Jul Au Se Oc No De Ja Fe Ma Ap Ma Ju Jul Au Se Oc No De Ja Fe M Ap Ma Ju Jul Au Se Oc No De Ja Fe Ma Ap M Ju Jul Au S  
2015 2016 2017 2018 2019 2020

**AMP - NON TRENDING**



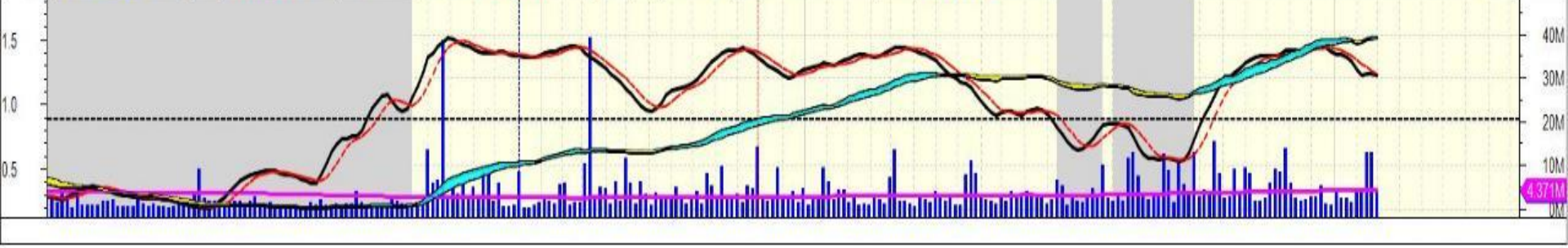
+GMMA -GMMA -GMMA -GMMA -GMMA +GMMA -GMMA



# IMD – POSSIBLE BUY???



-GMMA +GMMA -GMMA +GMMA



Ma Ap M Ju Jul Au Se Oc No De Ja Fe Ma Ap Ma Ju Jul Au Se Oc No De Ja Fe Ma Ap Ma Ju Jul Au Se Oc No De Ja Fe M Ap Ma Ju Jul Au Se Oc No De Ja Fe Ma Ap M Ju Jul Au S  
2015 2016 2017 2018 2019 2020

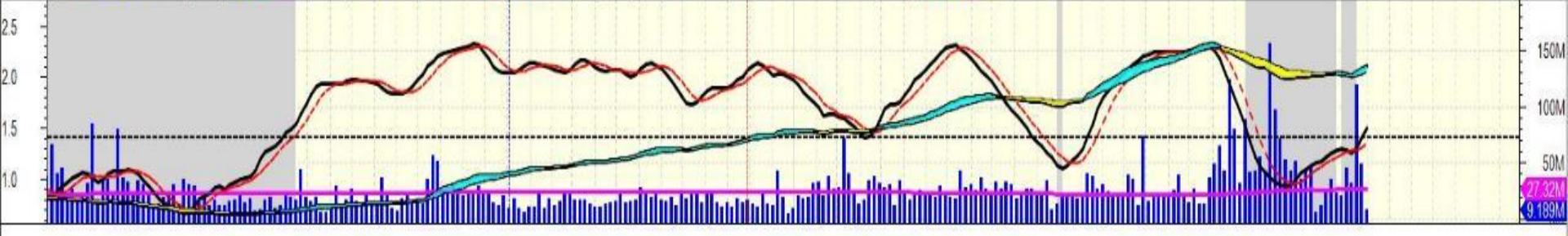


**CWY – POSSIBLE BUY???**



-GMMA +GMMA +GMMA -GMMA

Volume (1) 9,189,420,000 MA-V(S, 200) 27,324,149,160 sto(30, 10, 3, 5, S) %K=8.887 %D=-4.542 MA-C8 30W(C, Exp, Wei, 15, 30) S=2.109 L=2.057 MA-V(S, 200) 27,324,149,160 2/03/2020



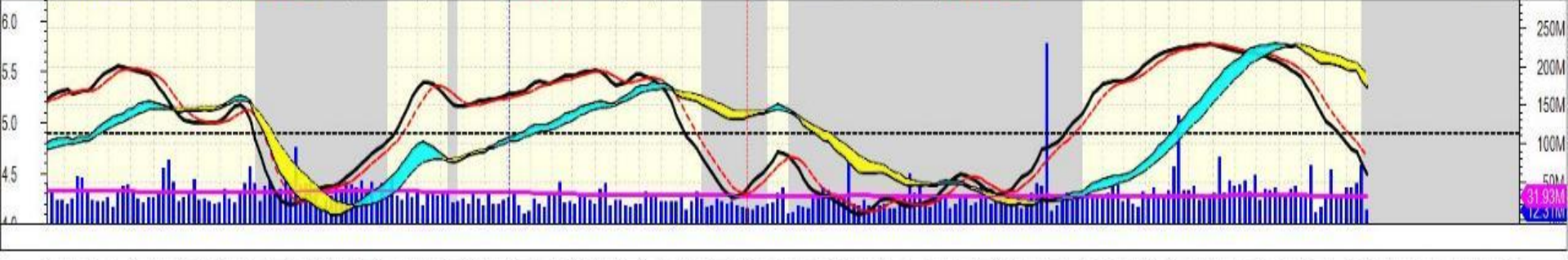
Year	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	Jan	Apr	Jul	Oct	
2015																									
2016																									
2017																									
2018																									
2019																									
2020																									

**AZJ - SELL???**



+GMMA -GMMA +GMMA +GMMA -GMMA -GMMA +GMMA

Volume (1) 12,314,029.000 MA-V (S, 200) 31,932,829.330 sto (30, 10, 3, 5, S) %K=-39.852 %D=-22.421 MA-C8 30W (C, Exp, Wei, 15, 30) S=5.348 L=5.476 MA-V (S, 200) 31,932,829.330 2/03/2020

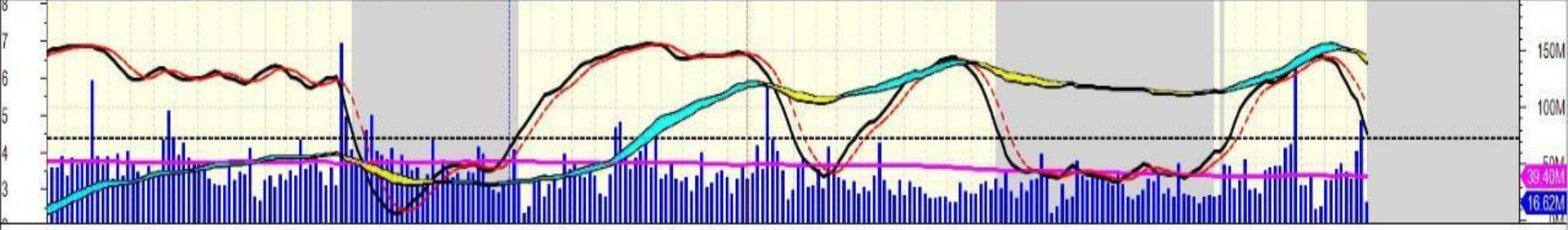


Jan Ap M Ju Jul Au Se Oc No De Ja Fe Ma Ap Ma Ju Jul Au Se Oc No De Ja Fe Ma Ap Ma Ju Jul Au Se Oc No De Ja Fe Ma Ap M Ju Jul Au Se 2015 2016 2017 2018 2019 2020

**QAN - SELL???**



+GMMA -GMMA +GMMA -GMMA +GMMA



Jan | Apr | Jul | Oct | Dec | 2015 | 2016 | 2017 | 2018 | 2019 | 2020



# Donchian Channel with Fill - Code

[description=A moving average indicator developed by Richard Donchian.]

[target=Price; category=Bands; author=Donchian, Richard]

```
n := input("Time periods",20,1);
```

```
[name=Top;linestyle=solid]
```

```
upper := hhv(H,n);
```

```
[name=Middle;linestyle=dash]
```

```
middle := (hhv(H,n) + llv(L,n))/2;
```

```
[name=Bottom;linestyle=solid]
```

```
lower := llv(L,n);
```

```
{Fill}
```

```
[name=Upper Fill;linestyle=fill; color=cyan]
```

```
upper; middle;
```

```
[name=Lower Fill;linestyle=fill; color=yellow]
```

```
middle; lower;
```

```
[name=Top;linestyle=solid]
```

```
hhv(H,n);
```

```
[name=Middle;linestyle=dash]
```

```
(hhv(H,n) + llv(L,n))/2;
```

```
[name=Bottom;linestyle=solid]
```

```
llv(L,n);
```

