



### RESEARCH PROJECT FOR MMTA COURSE 3

The research project at the conclusion of Course 3 will consist of two studies.

**Part 1:** Choose one of the following cash or nearby futures markets (daily charts) and identify all the primary cycles (lows and highs) and their double bottoms and tops (if present) since 2010 on these daily charts:

**DJIA, Gold, Euro cash, Dollar/Yen cash, Crude Oil, Bitcoin spot**

On these daily charts, indicate primary cycle troughs and double bottoms as PB and DB, respectively. Indicate primary cycle crests and double tops as PT and DT, respectively.

Then, make a table of dates in chronological order identifying each of the primary cycle troughs and crests that occurred in that market

On the list of dates, identify only PBs and PTs, and also indicate (1) # of weeks from PB to PT, 2) # of weeks from PT to PB, and 3) total number of weeks from PB to PB.

The table will look like this:

			# of weeks	# of weeks	# of weeks
PB	PT	PB	PB to PT	PT to PB	PB to PB

Remember: the date that ends one cycle (PB) is the same date (PB) that begins the next cycle in the next row.

**Part II:** Choose any market you wish and...

- Identify all the primary cycles (tops and bottoms) and their phases (half-primary and major cycles) within it, going back to 2010 or up to 20 occurrences. You may also include any trading cycles that either began and/or ended 4% or greater reversals (in currencies

you can use 3%; in Crude Oil, better use 8%; in Bitcoin, better use 15% as minimum criteria for a move).

- Choose a planet. Find all its retrograde and direct dates during your search period.
- Create two tables: one will list the dates of each Rx and the second will list the dates of each direct.
  - Identify any cycles that unfolded within 4 trading days (central time band) and then up to 10 days (extended time band)
  - *Note: For ETB (extended time band), you can use an orb that slightly exceeds 10 trading days if you think it is part of a cluster that correlated with the primary cycle. However, for ½ PCs, do not use orbs greater than 9 trading days; for major cycles, do not use orbs greater than 8 trading days; for trading cycles, do not use orbs greater than 4 trading days for either ETB or CTB)*
  - Assign 'S' values to each date using the same value system used in the classes where PB or PT = 5, DB or DT = 4.5; ½-PB or PT = 4.0, etc.
  - Calculate the C/S value of each Rx and direct planetary station for your study
  - Summarize your conclusions (i.e., how strong was it? Did it have a tendency more towards highs or lows, or breakouts?).
  - Extra credit. Do a second Rx and direct planet study.

**Note 1:** There may be more than one group that chooses Bitcoin. I will personally work with these groups. I wish to make sure that the same planets are not examined in part 2 by multiple groups – that each group chooses a different Rx/direct planet to analyze.

Also, if you choose Bitcoin, then Part 1 and Part 2 of this research project will contain the same primary cycle troughs and crests, which will save some time for you. I would ask each group to send in Part 1 (charts with PB, DB, PT, and DT) first so that I can make sure we are all working from the same dates for primary cycles before you get too far along with the Part 2 assignment.

Kindly let me know as soon as possible if your group is interested in doing Bitcoin as its Course 3 Research Project. So far, we have three groups that have expressed an interest in Bitcoin for this project.

Looking forward to cracking the crypto code for trading!

**Note 2:** This is where the new FAR for Galactic Trader updated program may be useful – especially the Filtered Wave parts, which will help in identify primary, half-primary, major, and trading cycles of 4% or greater moves (or whatever percentage of change from an isolated low or high you choose).

If you have already purchased FAR for the Galactic Trader, make sure you go to their website and download the new updated version with solar/lunar studies. Here is the link for those who own the program: <https://files.fibonaccitrader.com/ftgt/gtv410setup.exe>

Carlos allows a 10% discount to MMTA students for purchase of FAR for Galactic Trader. You do not need real time, only EOD (end of day). He also provides a list of market symbols from yahoo.com/finance that MMA trades for convenience if you do not have a Metastock program. I must ask him to add Copper. These are shown on the next page.

Note about FAR: If you do not plan on using very short term (aggressive) trading strategies for yourself or your clients, it is not necessary to have the FAR program. It is not necessary for this research project, although FAR will help in identifying 4% or whatever price reversals you choose between cycles. However, you can calculate that if necessary for trading cycles that look impressive. Or you can even use *moving average studies* as your point of determination of a cycle turn related to geocosmics instead of percentage of price changes. For instance, anytime a market touches a moving average that is half the length of a major or primary cycle are good criteria to use for a cycle reversal related to geocosmics.

Remember: this course is more about *market timing* than *price targeting*. Both are important for trading. But it will be in next year's work that we will focus more on price targets and special technical signals for trading advice. Right now, we want to learn how to identify time bands when markets are most likely to reverse and offer a trading opportunity, based on geocosmic studies, and also with the idea identifying one major cycle trough and crest about every six weeks on average. We find that the majority of our trading clients like that type of a time horizon for an outlook.

Thank you and looking forward to exciting Course 3 Research experience!

Ray

There are the symbols for financial and commodity markets used by yahoo.com/finance and which work well with Galactic trader I (and FAR) if you don't wish to sue Metastock.

As a side note, I can request and probably obtain a special discount on Metastock (EOD) from Jeff Gibby if there is a "group" that wants to start and end their subscription service with them on a yearly basis at the same time. Maybe as much as 50% off there are five students.

AEX	^AEX
ASX	ASX.AX
AUDUSD	AUDUSD=X
BTC	BTC-USD
GBP	GBPUSD=X
Bovespa Brazil	^BVSP
CAD	CADUSD=X
Shanghai Composite	000001.SS
Corn	ZC=F

Crude Oil	CL=F
Copper	HG=F
DAX	^GDAXI
DOW JONES IA	^DJI
YEN	JPY=X
Etherium	ETH-USD
EUR	EURUSD=X
EURJPY	EURJPY=X
FTSE	^FTSE
GOLD FUTURES	GC=F
Hang Seng Index	^HSI
IBEX Spain	^IBEX
Lite Coin	LTC-USD
Live Cattle	LE=F
NASDAQ Cash	^IXIC
NASDAQ Mini	NQ=F
NIFTY	^NSEI
NIKKEI	^N225
OATS	ZO=F
S&P Furute	ES=F
S&P Cash	^GSPC
Silver Futures	SI=F
Straits Times Index	^STI
Soybeans Futures	ZS=F
Zurich SMI Index	^SSMI
Swiss Franc	CHFUSD=X
T-Bonds Futures	ZB=F
T-Notes Futures	ZT=F
US Dollar Futures	DX-Y.NYB
VIX	^VIX
Wheat Futures	ZW=F
XAU	^XAU
XLF	XLF