Economics 442 Macroeconomic Policy Lecture 20 4/4/2024

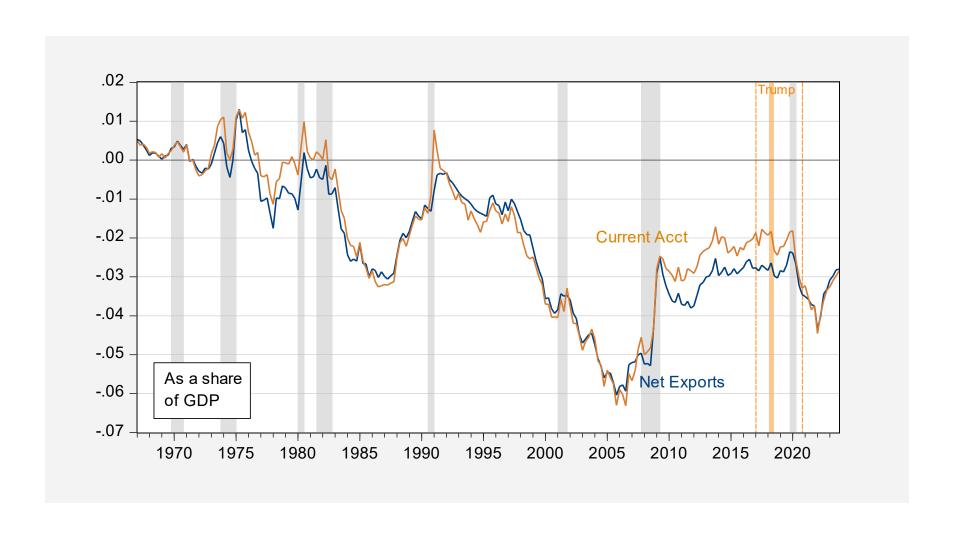
Instructor: Prof. Menzie Chinn UW Madison Spring 2024

Trade, Deficits and Debt

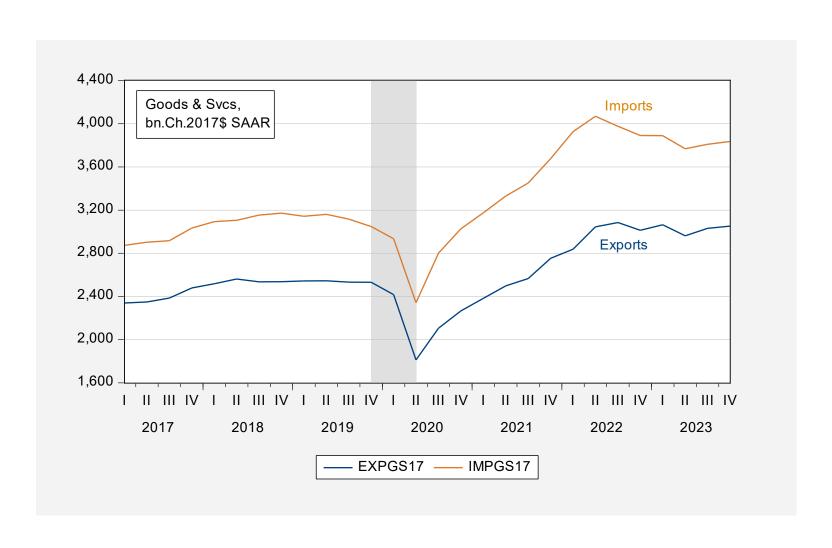
"For many, many years, the United States has suffered through massive trade deficits. That's why we have \$20 trillion in debt. So we'll be changing that."

--President Donald J. Trump, June 30, 2017

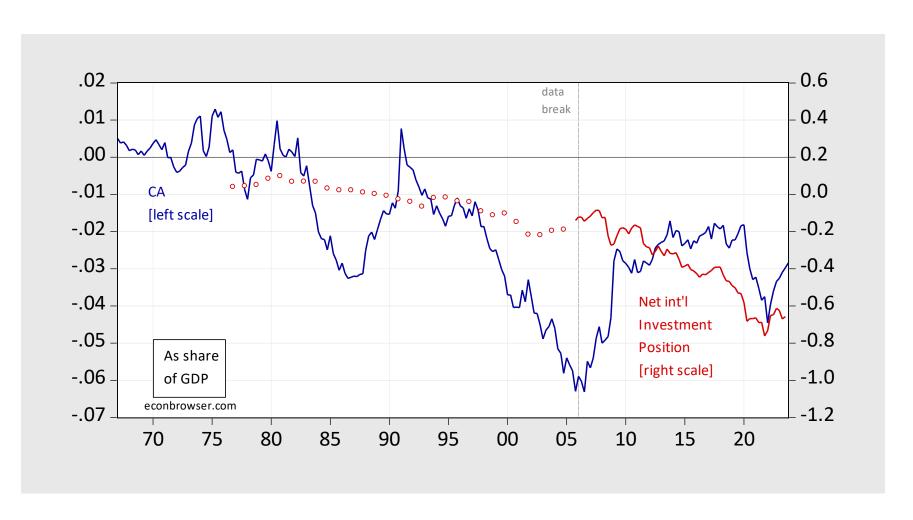
Trade & Current Account Balances



Exports & Imports



Current Account and Net International Investment Position



Accounting, Exchange Rates

- Balance of payments accounting
- Exchange rates
- Foreign exchange markets

Balance of Payments Accounting

CA + FA + ORT
$$\equiv 0$$

"current a/c" "private financial a/c" "official financial a/c"

CA $\equiv NX$ + NI + NT

"net exports" "net income" "net transfers"

 $NX \equiv EX - IM/\epsilon$

ORT is changes in holdings of central banks, monetary authorities

U.S. Current Account

	Current Account ¹												
Period	Goods ²			Services			Balance	Primary income receipts and payments			Balance	Balance	Current account balance
	Exports	Imports	Balance on goods	Exports	Imports	Balance on services	on goods and services	Receipts	Payments	Balance on primary income	on secondary Income ³	on current account	as a percentage of GDP
2010	1,290,279 1,498,887 1,562,630 1,593,708 1,635,563 1,511,381 1,457,393 1,557,003 1,676,950 1,652,437	1,938,950 2,239,886 2,303,749 2,294,247 2,385,480 2,273,249 2,207,195 2,356,345 2,557,251 2,516,767	-648,671 -740,999 -741,119 -700,539 -749,917 -761,868 -749,801 -799,343 -880,301 -864,331	582,041 644,665 684,823 719,529 756,705 768,362 780,530 830,388 862,433 875,825	436,456 458,188 469,610 465,819 490,932 497,755 511,898 544,836 562,069 588,359	145,584 186,477 215,213 253,710 265,773 270,607 268,632 285,552 300,364 287,466	-503,087 -554,522 -525,906 -446,829 -484,144 -491,261 -481,169 -513,791 -579,937 -576,865	723,223 791,469 791,679 811,561 845,926 825,100 857,819 997,524 1,108,472 1,135,691	553,311 589,038 593,754 616,041 645,623 639,724 660,798 739,731 857,298 899,347	169,911 202,431 197,925 195,520 200,303 185,376 197,021 257,793 251,174 236,344	-98,834 -103,211 -90,134 -85,545 -83,978 -101,470 -110,716 -109,272 -120,931 -139,705	-432,009 -455,302 -418,115 -336,854 -367,819 -407,355 -394,865 -365,269 -449,693 -480,226	-2.9 -2.9 -2.6 -2.0 -2.1 -2.2 -2.1 -1.9 -2.2 -2.2
2018: I II IV	412,989 426,060 419,341 418,561	630,894 630,865 646,224 649,269	-217,905 -204,805 -226,883 -230,708	217,360 213,617 215,287 216,170	138,310 139,042 140,810 143,907	79,050 74,575 74,477 72,263	-138,855 -130,230 -152,406 -158,445	270,402 279,752 273,725 284,593	200,215 215,258 217,087 224,738	70,187 64,494 56,638 59,855	-27,918 -29,678 -29,473 -33,861	-96,587 -95,414 -125,241 -132,452	-1.9 -1.9 -2.4 -2.5
2019: I II IV	419,048 411,069 410,930 411,390	635,180 635,641 632,059 613,887	-216,133 -224,572 -221,129 -202,497	215,162 220,326 219,259 221,079	144,267 147,964 147,788 148,341	70,895 72,362 71,471 72,738	-145,237 -152,210 -149,658 -129,759	278,452 287,535 286,761 282,943	225,153 228,069 225,140 220,985	53,298 59,467 61,621 61,958	-34,677 -34,948 -33,556 -36,524	-126,616 -127,691 -121,594 -104,324	-2.4 -2.4 -2.3 -1.9
2020: I	403,533 288,885	595,281 508,223	-191,748 -219,338	202,019 155,768	136,747 101,328	65,272 54,440	-126,476 -164,898	256,527 209,389	204,491 180,176	52,036 29,213	-37,075 -34,856	-111,516 -170,541	-2.1 -3.5

Source: *Economic Indicators*, October 2020

https://www.govinfo.gov/content/pkg/ECONI-2020-10/pdf/ECONI-2020-10-Pg36.pdf

Financial Account

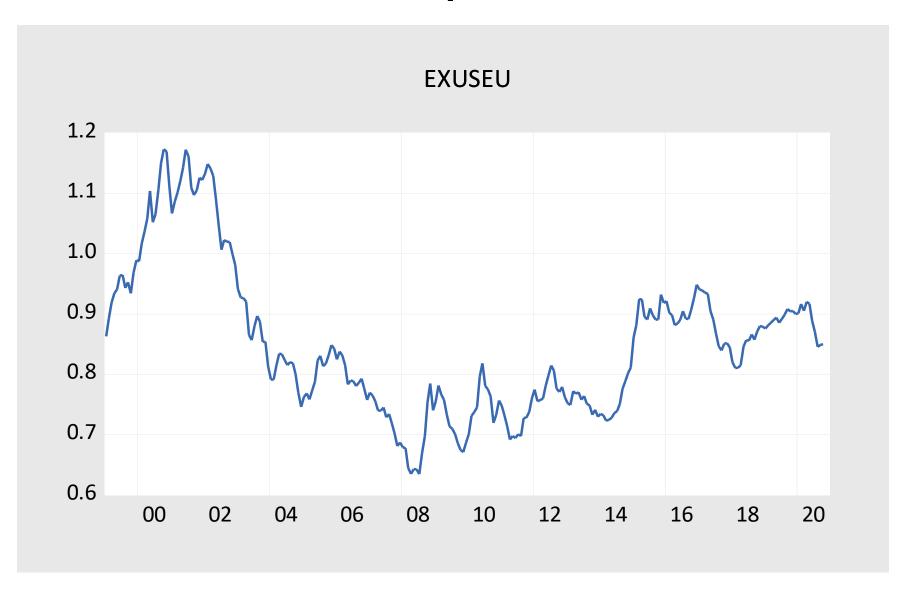
[Millions of dollars; quarterly data seasonally adjusted]														
Period	Balance on capital account ¹	Financial account												
			finar	n of financia ncial derivati ssets / finar	ives	_		financial d	of liabilities e lerivatives es / financia		Financial derivatives	Net lending (+) or net borrowing (-) from financial account transactions 5	Statistical discrepancy	U.S. official reserve assets, net (unad- justed, end of period) 4
		Total	Direct invest- ment assets	Portfolio invest- ment assets	Other invest- ment assets	Reserve assets ⁴	Total	Direct invest- ment liabilities	Portfolio invest- ment liabilities	Other invest- ment liabilities	other than reserves, net trans- actions			
2010	-6,891 -9,020 931 -6,559 -6,535 -7,940 -6,606 12,394 -4,196 -6,244	958,737 492,556 176,937 649,753 866,702 197,359 335,233 1,188,188 358,971 440,751	349,829 436,615 377,239 392,796 387,528 302,072 299,814 405,375 –151,298 188,469	199,620 85,365 248,760 481,298 582,676 160,410 36,283 569,375 335,263 46,570	407,454 -45,301 -453,522 -221,242 -99,920 -258,831 -2,955 215,127 170,017 201,053	1,835 15,877 4,460 -3,099 -3,583 -6,292 2,090 -1,690 4,989 4,659	1,391,042 983,522 632,034 1,052,068 1,109,443 503,468 706,693 1,546,281 758,291 797,960	264,039 263,499 250,343 288,131 251,857 511,434 474,388 366,996 261,480 351,629	820,434 311,626 747,017 511,987 697,607 213,910 231,265 790,796 303,075 179,980	306,569 408,397 -365,327 251,949 159,979 -221,876 1,040 388,489 193,736 266,350	-14,076 -35,006 7,064 2,222 -54,335 -27,035 7,827 23,998 -20,404 -38,340	-446,381 -525,972 -448,032 -400,093 -297,076 -333,144 -363,633 -334,095 -419,724 -395,549	-7,481 -61,650 -30,849 -56,681 77,278 82,151 37,838 18,779 34,165 90,921	132,433 147,953 150,175 144,575 130,090 117,581 117,332 123,313 125,798 129,479
2018: I II IV	-1,406 -2,912 -455 576	320,758 -223,399 109,691 151,921	-58,184 -105,044 74,289 -62,359	289,989 -17,704 83,451 -20,473	88,959 -103,719 -47,872 232,649	-7 3,068 -177 2,105	446,162 -135,152 114,982 332,299	65,445 9,475 137,899 48,662	301,122 -18,368 12,157 8,164	79,595 -126,259 -35,075 275,474	29,139 -15,723 -11,505 -22,315	-96,265 -103,970 -16,796 -202,693	1,727 -5,644 108,900 -70,817	126,510 125,099 123,729 125,798
2019: I II IV	-2,542 -848 -835 -2,019	84,497 158,966 142,221 55,067	-11,846 115,561 25,574 59,180	-40,720 45,025 20,460 21,806	136,855 -3,980 94,305 -26,128	208 2,359 1,882 210	158,290 317,227 238,964 83,479	117,543 99,461 78,119 56,506	-18,569 146,049 105,660 -53,160	59,315 71,717 55,185 80,133	-21,383 -9,642 -6,382 -933	-95,175 -167,903 -103,125 -29,345	33,983 -39,364 19,303 76,998	125,175 128,338 127,595 129,479
2020: I	-2,971 -1,052	830,858 -147,602	-9,065 35,861	115,814 -29,818	724,354 -158,606	-245 4,960	952,306 -4,777	52,201 -8,510	-20,547 338,957	920,653 -335,225	-21,611 60,256	-143,059 -82,569	-28,572 89,025	127,910 133,890

Source: Economic Indicators, October 2020

Definitions

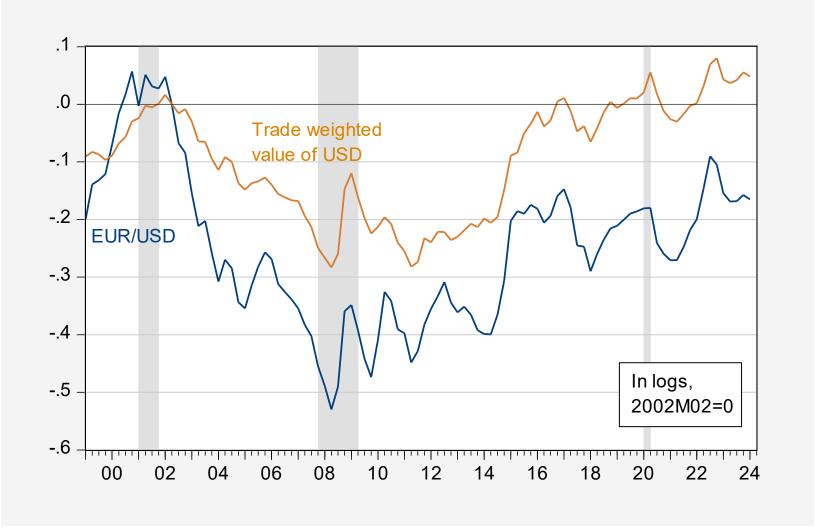
- Exchange rates: number of foreign currency units required to purchase one unit of home currency; also value of home currency.
- E.g., from EU resident perspective: \$/€,
 ¥/ €
- E.g., from Chinese resident perspective:
 \$/¥

Example: €/\$



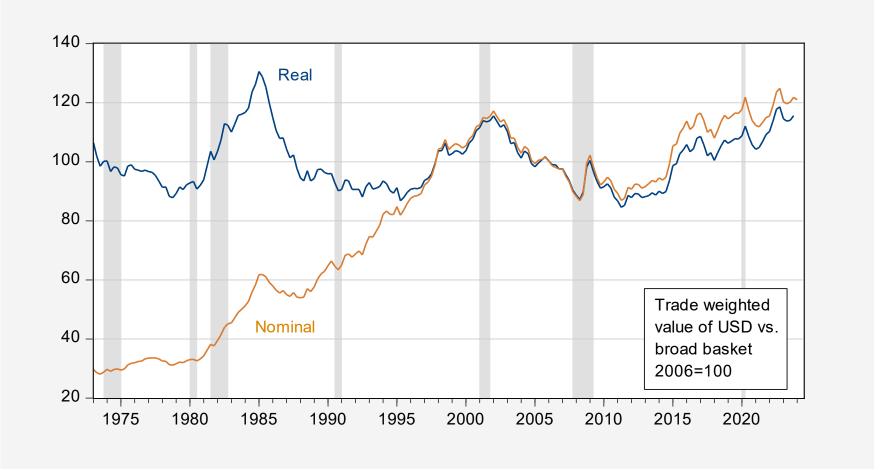
The Dollar Exchange Rate

(vs. Euro, Trade Weighted basket)



Source: Federal Reserve Board via FRED

The Dollar Exchange Rate (Nominal vs. Real)



Source: Federal Reserve Board via FRED

Exchange Rate – Interest Rate

